

## SEARCH REQUEST FORM

(137)

Examiner # (M. Morris) F. Cooper Requester's Full Name: \_\_\_\_\_Art Unit 2723 Location (Bldg/Room#): CPK1-4043 Phone (circle 305) 306 308) 2918Serial Number: 09/009,320 Results Format Preferred (circle): PAPER DISK E-MAILTitle of Invention METHOD FOR ADJUSTING DRIVE ROLLER  
LINEFEED DISTANCEInventors (please provide full names): DAN ARQUILEVICH, STEVERASMUSSEN, VANCE M. STEPHENSEarliest Priority Date: 01/20/98

Keywords (include any known synonyms registry numbers, explanation of initialisms):

PRINTER CALIBRATE  
LINEFEED OVERLAP  
PITCH  
TEST PATTERN  
TEST PLOT  
BAND  
BANDING

## Search Topic:

Please write detailed statement of the search topic, and the concept of the invention. Describe as specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples of relevant citations, authors, etc., if known. You may include a copy of the abstract and the broadcast or most relevant claim(s).

(Attached)

400 }  
101 }

06-23-99A07:57 RCVD

## STAFF USE ONLY

Searcher: M. Morris  
Searcher Phone #: 305-0757  
Searcher Location: ELC  
Date Picked Up: 6/24  
Date Completed: 7/25  
Clerical Prep Time: 120  
Terminal Time: 70  
Number of Databases: 45

## Type of Search

☐ N.A. Sequence  
☐ A.A. Sequence  
☐ Structure (#)  
☒ Bibliographic  
☐ Litigation I  
☐ Fulltext  
☐ Procurement  
☐ Other

## Vendors (include cost where applicable)

☐ STN  
☐ Questel/Orbit  
☐ Lexis/Nexis  
☐ WWW/Internet  
☐ In-house sequence systems (list)  
☒ Dialog  
☐ Dr. Link  
☐ Westlaw  
☐ Other (specify)

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\* Cover Sheet \*  
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\* \*  
\* Prepared for: Cooperrider \*  
\* \*  
\* By : Garris \*  
\* \*  
\* Date : June 25, 1999 \*  
\* \*  
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Hi,  
Attached are your search results. Results are limited. If you want any  
modifications give me a call at 305-0757

Malinda Garris  
ELECTRONIC INFO CENTER

File 351:DERWENT WPI 1963-1999/UD=9924;UP=9924;UM=9924

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File 344:Chinese Patents ABS Apr 1985-1999/Jun

(c) 1999 European Patent Office

File 347:JAPIO Oct 1976-1999/Feb.(UPDATED 990603)

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Set	Items	Description
S1	210877	PRINTER?
S2	9781	(LINE()FEED? OR PITCH?) (N10) (ADJUST? OR CORRECT? OR REGUL- AT? OR MONITOR? OR FIX?)
S3	7135	TEST?(N2) (PATTERN? OR PLOT?)
S4	191597	BAND OR BANDING
S5	183	S1(N15)CALIBRAT?
S6	2	S1 AND S2 AND S3
S7	6	S1 AND S2 AND S4
S8	0	S7 AND CALIBRAT?
S9	0	S7 NOT PITCH?
S10	2	S6 NOT PY=1999
S11	185	S2 NOT PITCH?
S12	78	S1 AND S11
S13	0	S12 AND (BAND OR BANDING OR CALIBRAT?)
S14	2	S12 AND ((TEST?) (N4) (PATTERN? OR PLOT?))

6/7/1 (Item 1 from file: 347)

DIALOG(R) File 347:JAPIO

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05541378 \*\*Image available\*\*

SERIAL DOT **PRINTER** AND OPERATION CONTROL METHOD THEREFOR

PUB. NO.: 09-156178 [JP 9156178 A]

PUBLISHED: June 17, 1997 (19970617)

INVENTOR(s): OYAMADA YOSHIHIRO

APPLICANT(s): ALPS ELECTRIC CO LTD [001009] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 07-322753 [JP 95322753]

FILED: December 12, 1995 (19951212)

#### ABSTRACT

PROBLEM TO BE SOLVED: To form a high quality image by determining the correction amount of a print medium predetermined number of times repeatedly and storing the corrected feeding amount for the entire circumference of a feed roller and then printing a marker at the initial position of starting print according to the corrected feeding amount thereby controlling the feeding of print medium accurately.

SOLUTION: When power is turned on and a print medium is fed, while being separated, from the paper feeder of a **printer** and set at a print start position, a sensor 19 detects a marker 18 and sets an initial position of a feed roller 17 for starting the printing operation. A CPU 23 then delivers a signal for starting the printing of a **test pattern** to a thermal head drive circuit 26 thus driving a thermal head. After a **test pattern** is printed based on a predetermined image data, a predetermined amount of line feed is performed before printing a **test pattern** again. Subsequently, the space between the lines is measured by means of an image scanner and the predetermined amount of **line feed** is **corrected** and the **corrected line feed** amount is stored.

6/7/2 (Item 2 from file: 347)

DIALOG(R) File 347:JAPIO

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04105096 \*\*Image available\*\*

METHOD AND DEVICE FOR RECORDING

PUB. NO.: 05-096796 [JP 5096796 A]

PUBLISHED: April 20, 1993 (19930420)

INVENTOR(s): YOSHIOKA KIYOHARU

HINOHARA MAKOTO

KURIYAMA HIROYUKI

YAMADA OSAMU

HAMANO MUNEJI

APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 03-261841 [JP 91261841]

FILED: October 09, 1991 (19911009)

#### ABSTRACT

PURPOSE: To obtain recording method and device in which a **test pattern** printed on recording paper is read, and a **line feed** amount of a recording medium can be **adjusted** by a **line feed** amount **correction** value calculated based on the read data.

CONSTITUTION: A **test pattern** is recorded on a recording medium by a **printer** 2. The recording medium with the **test pattern** recorded thereon is photoelectrically read by a reading part 3, whereby a shift of a line feed amount in the **test pattern** is detected. Based on the detected shift amount, a recording medium **line feed** amount **correction** value is calculated and stored in a **correction** value memory 68. A recording device is so operated that an image is recorded on a recording medium while a

recording medium **line feed** amount is **corrected** by controlling a pulse number, to be outputted to a paper feed motor 35 on the basis of the correction value stored in the memory 68.

14/7/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05541378 \*\*Image available\*\*  
SERIAL DOT **PRINTER** AND OPERATION CONTROL METHOD THEREFOR

PUB. NO.: 09-156178 [JP 9156178 A]  
PUBLISHED: June 17, 1997 (19970617)  
INVENTOR(s): OYAMADA YOSHIHIRO  
APPLICANT(s): ALPS ELECTRIC CO LTD [001009] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 07-322753 [JP 95322753]  
FILED: December 12, 1995 (19951212)

#### ABSTRACT

PROBLEM TO BE SOLVED: To form a high quality image by determining the correction amount of a print medium predetermined number of times repeatedly and storing the corrected feeding amount for the entire circumference of a feed roller and then printing a marker at the initial position of starting print according to the corrected feeding amount thereby controlling the feeding of print medium accurately.

SOLUTION: When power is turned on and a print medium is fed, while being separated, from the paper feeder of a **printer** and set at a print start position, a sensor 19 detects a marker 18 and sets an initial position of a feed roller 17 for starting the printing operation. A CPU 23 then delivers a signal for starting the printing of a **test pattern** to a thermal head drive circuit 26 thus driving a thermal head. After a **test pattern** is printed based on a predetermined image data, a predetermined amount of line feed is performed before printing a **test pattern** again. Subsequently, the space between the lines is measured by means of an image scanner and the predetermined amount of **line feed** is **corrected** and the **corrected line feed** amount is stored.

14/7/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 1999 JPO & JAPIO. All rts. reserv.

04105096 \*\*Image available\*\*  
METHOD AND DEVICE FOR RECORDING

PUB. NO.: 05-096796 [JP 5096796 A]  
PUBLISHED: April 20, 1993 (19930420)  
INVENTOR(s): YOSHIOKA KIYOHARU  
HINOHARA MAKOTO  
KURIYAMA HIROYUKI  
YAMADA OSAMU  
HAMANO MUNEJI  
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 03-261841 [JP 91261841]  
FILED: October 09, 1991 (19911009)

#### ABSTRACT

PURPOSE: To obtain recording method and device in which a **test pattern** printed on recording paper is read, and a **line feed** amount of a recording medium can be **adjusted** by a **line feed** amount **correction** value calculated based on the read data.

CONSTITUTION: A **test pattern** is recorded on a recording medium by a **printer** 2. The recording medium with the **test pattern** recorded thereon is photoelectrically read by a reading part 3, whereby a shift of a

line feed amount in the **test pattern** is detected. Based on the detected shift amount, a recording medium line feed amount **correction** value is calculated and stored in a **correction** value memory 68. A recording device is so operated that an image is recorded on a recording medium while a recording medium line feed amount is **corrected** by controlling a pulse number to be outputted to a paper feed motor 35 on the basis of the correction value stored in the memory 68.

7/7/1 (Item 1 from file: 351)

DIALOG(R)File 351:DERWENT WPI

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012218321 \*\*Image available\*\*

WPI Acc No: 99-024427/199902

Printer and printing for it - has sub-scan driver carrying printing medium in sub-scanning direction, and driver control unit controlling main scan driver

Patent Assignee: SEIKO EPSON CORP (SHIH )

Inventor: KANAYA M; SHIMADA K

Number of Countries: 020 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
WO 9852761	A1	19981126	WO 98JP2216	A	19980520	B41J-002/01	199902 B
JP 11034398	A	19990209	JP 98156652	A	19980520	B41J-002/51	199916

Priority Applications (No Type Date): JP 97130100 A 19970520

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
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WO 9852761	A1	J	44			
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Designated States (National): US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE

JP 11034398	A		15			
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Abstract (Basic): WO 9852761 A

The **printer** comprises a printing head (28) having a nozzle array composed of a number of nozzles. A main scan driver (3) is used for the printing head (28). A printing head driver (5) is provided for driving the nozzles selected from the nozzle array. A sub-scan driver (4) carries a printing medium (8) in a sub-scanning direction. A driver control unit (2) controls the main scan driver. The sub-scan driver and the printing head driver are used to print on the printing medium (8) by the printing head (28).

At a time of a **fixed pitch** sub-scanning print or an overlap print, dots are printed adjacent to each other between two dots, where **banding** is likely to occur under the control of the driver control unit (2) by the nozzles which are not employed in the particular printing mode.

ADVANTAGE - Prevents the **banding** which has been caused by an accumulated error of paper feeding or by a difference in a drying level of ink due to a time difference in the raster forming thereby to invite a deterioration in the image quality.

Dwg.2/18

Derwent Class: P75; T01; T04

International Patent Class (Main): B41J-002/01; B41J-002/51

International Patent Class (Additional): B41J-019/96

7/7/2 (Item 2 from file: 351)

DIALOG(R)File 351:DERWENT WPI

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011376870 \*\*Image available\*\*

WPI Acc No: 97-354777/199733

Corona band discharge type electrical equipment setting for electrophotographic type image forming appts such as printer, copier - has control grid that controls application of electrostatic charge

**potential on ozonolysis member which is held by electrode plate**

Patent Assignee: KONICA CORP (KONS )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 9146341	A	19970606	JP 95307475	A	19951127		199733 B

Priority Applications (No Type Date): JP 95307475 A 19951127

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
JP 9146341	A		6			

Abstract (Basic): JP 9146341 A

The electrical equipment setting includes an electrode plate (3) surrounded by a support member (2) inside a shield member (1). The support member is non-conductive. The linear side rim of the electrode plate is placed parallel to the shield member. The electrode plate consists of peak discharge electrodes (32a) fixed on a hold plate (31).

The peak discharge electrodes with **fixed pitch** and an electrode member (32) constitutes an ozonolysis member (33). A control grid (4) controls the electrostatic charges applied to the ozonolysis member held by electrode plate.

ADVANTAGE - Eliminates adverse effect due to ozone generation.

Dwg.1/5

Derwent Class: P84; S06; T04; X12

International Patent Class (Main): G03G-015/02

International Patent Class (Additional): H01T-019/04

**7/7/3 (Item 3 from file: 351)**

DIALOG(R) File 351:DERWENT WPI

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009988749 \*\*Image available\*\*

WPI Acc No: 94-256460/199432

**Method eliminating banded distortion in printed image - Adjusts value of modulo counter on basis of error distance calculated from errors in photoreceptor and scanning device velocities.**

Patent Assignee: XEROX CORP (XERO )

Inventor: CURRY D M; CURRY D N

Number of Countries: 004 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 605131	A1	19940706	EP 93310053	A	19931214	H04N-001/04	199432 B
US 5430472	A	19950704	US 91736989	A	19910808	B41J-002/435	199532
			US 92918092	A	19920724		
			US 92926429	A	19920810		
			US 92998151	A	19921229		

Priority Applications (No Type Date): US 92998151 A 19921229; US 91736989 A 19910808; US 92918092 A 19920724; US 92926429 A 19920810

Cited Patents: EP 144008; EP 250132; EP 526000; US 265845; US 5138339

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
EP 605131	A1	E	40			

Designated States (Regional): DE FR GB

US 5430472	A	37	CIP of	US 91736989
			CIP of	US 92918092
			CIP of	US 92926429
			CIP of	US 5138339
			CIP of	US 5357273
			CIP of	US 5367387

Abstract (Basic): EP 605131 A

The method is intended for a high addressability laser **printer** operating in overscan mode. The **printer** uses a flying spot raster output scanner to print latent electrostatic images on xerographic

photoreceptors. The method determines a desired photoreceptor velocity in the process direction and a desired scanning velocity.

One or both of the actual photoreceptor and scanner velocities are then determined and corresp. error velocities calculated. A modulo counter controls the number of steps extending across a **pitch** width. Its value is **adjusted** on the basis of an error distance calculated from the error velocities and a scan interval.

ADVANTAGE - Compensates for variations in photoreceptor drum velocity by modifying the data writing rate to the effective scanning rate. Accurate. High image quality achieved.

Dwg.32

Abstract (Equivalent): US 5430472 A

The method involves using a laser **printer** photoreceptor (14) and scanner (17). A desired process direction velocity (23) is determined for the photoreceptor and a desired scanning velocity (22) is determined for the scanner. An actual velocity for at least one of the photoreceptor and scanning is determined along with an error velocity for each determined actual velocity.

An error distance is calculated from the determined error velocities. A scan interval and a count value of a modulo counter is adjusted based on the determined error distance.

USE/ADVANTAGE - **Printers** and optical display systems having high gamma photosensitive recording media, e.g. xerographic **printers**. Corrects and eliminate distortions, e.g. **banding**, misregistration between colour separation layers, bowing in single or multiple beam xerographic **printers**. Inexpensive and easily implemented.

Dwg.1/15

Derwent Class: P75; S06; T04; W02

International Patent Class (Main): B41J-002/435; H04N-001/04

7/7/4 (Item 4 from file: 351)

DIALOG(R)File 351:DERWENT WPI

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009442827 \*\*Image available\*\*

WPI Acc No: 93-136344/199317

**Colour thermal ink-jet printer - produces image by ejecting ink colours from recording head having multiple ejection orifices**

Patent Assignee: CANON KK (CANO )

Inventor: AKIYAMA Y; HIRABAYASHI H; MATSUBARA M; NAGOSHI S; SUGIMOTO H

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 539157	A2	19930428	EP 92309571	A	19921020	B41J-002/21	199317 B
CA 2080707	A	19930422	CA 2080707	A	19921016	B41J-002/21	199327
EP 539157	A3	19930602	EP 92309571	A	19921020	B41J-002/21	199404
EP 539157	B1	19970723	EP 92309571	A	19921020	B41J-002/21	199734
DE 69221068	E	19970828	DE 621068	A	19921020	B41J-002/21	199740
			EP 92309571	A	19921020		
CA 2080707	C	19980901	CA 2080707	A	19921016	B41J-002/21	199845

Priority Applications (No Type Date): JP 91272702 A 19911021

Cited Patents: No-SR.Pub; 1.Jnl.Ref; JP 1063185; US 4952942; WO 9108902; JP 1063185

Patent Details:

Patent	Kind	Lan	Pg	Filing	Notes	Application	Patent
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EP 539157	A2	E	22				
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Designated States (Regional): DE FR GB IT

EP 539157	B1	E	27				
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Designated States (Regional): DE FR GB IT

DE 69221068	E						
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Based on

EP 539157

Abstract (Basic): EP 539157 A

The appts. has a number of recording heads (1Y, 1M, 1C, 1K) and an image forming device. Each recording head has a number of ejection orifices aligned at a predetermined pitch, for forming a swath by



ejecting different colour inks. The image forming device scans the recording heads relative to a recording medium and conveying the recording medium so as to sequentially form a colour image by mixing the colour inks.

The ink ejected from the post-ejection recording head is infiltrated and **fixed** while being shifted by not more than the predetermined **pitch** toward the downstream side.

ADVANTAGE - Prevents generation of **banding** in colour ink jet recording and improves image quality.

Dwg.1/15

Abstract (Equivalent): EP 539157 B

A colour ink jet recording apparatus comprising a plurality of recording heads for each supplying a different colour ink, each recording head having a plurality of ink ejection nozzles arranged with a predetermined pitch and means for conveying a recording medium in a conveying direction relative to the recording heads to enable a colour image to be recorded on the recording medium by mixing of different colour inks with one recording head being arranged to deposit a pattern of ink before another recording head, wherein, in operation the other recording head is arranged to deposit a pattern of ink which at its upstream edge is shifted by not more than the predetermined pitch downstream of the conveying direction from at least an upstream edge of the pattern of ink deposited by the one recording head.

Dwg.1/15

Derwent Class: P75; T04

International Patent Class (Main): B41J-002/21

7/7/5 (Item 5 from file: 351)

DIALOG(R) File 351:DERWENT WPI

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008751110 \*\*Image available\*\*

WPI Acc No: 91-255126/199135

**Copier, printer or facsimile with anti- banding system - corrects for irregular configuration of polygonal mirror, variation in photoconductive speed, and variation in laser position**

Patent Assignee: RICOH KK (RICO )

Inventor: BANNAI K

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
GB 2241347	A	19910828	GB 9136657	A	19910221		199135 B
GB 2241347	B	19931103	GB 913665	A	19910221	G03B-027/68	199344
US 5315322	A	19940524	US 91659609	A	19910221	G01D-009/42	199420
			US 9376942	A	19930616		

Priority Applications (No Type Date): JP 90284141 A 19901024; JP 9038448 A 19900221; JP 9045824 A 19900228; JP 9045825 A 19900228

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
US 5315322	A		25	Cont of	US 91659609	

Abstract (Basic): GB 2241347 A

The image forming apparatus forms an image by deflecting a laser beam by a rotary polygonal mirror. The laser beam is modulated by an image signal. A position detector detects an incident position where the laser beam is incident to the photoconductive element. A distance detector detects a distance which the photoconductive element moves in a period of time corresponding to a subscanning **pitch** interval. A **corrector** compensates for detectable errors.

The **corrector** is for **correcting** a difference between the subscanning **pitch** and the incident position by deflecting the laser beam in a subscanning direction. The **corrector** **corrects** an error in the subscanning **pitch** and an error in the incident position which are ascribable to a variation in speed of the photoconductive element.

(48pp Dwg.No.5/12)

Abstract (Equivalent): GB 2241347 B

An image forming apparatus for forming an image by deflecting a laser beam by a rotary polygonal mirror, the laser beam having been modulated by an image signal onto a photoconductive element to electrostatically form a latent image and then developing said latent image, said apparatus comprising: position detecting means for detecting an incident position where the laser beam is incident to the photoconductive element; distance detecting means for detecting a distance which the photoconductive element moves in a period of time corresponding to a sub-scanning **pitch** interval; and **correcting** means for use in compensating for errors detectable thereby.

Abstract (Equivalent): US 5315322 A

An incident position is detected where a laser beam is incident to a photoconductive belt in both a main scanning direction and a subscanning direction. An encoder may be used for detecting a distance which the photoconductive belt moves in a period of time corresponding to a subscanning pitch interval.

**Banding** due to a variation in speed of the photoconductive element is corrected by comparing an output signal of the distance detector and a set signal stored beforehand and then deflecting the laser beam in a subscanning direction by a correction signal based on a sum of a difference between the output signal and the set signal, a sum of differences as measured from the beginning of writing and on the detected incident position, the corrector updating the set signal every time a copy is produced.

USE - For colour image forming appts.

Dwg.5/12

Derwent Class: P82; P84; S06; T04; V07

International Patent Class (Main): G01D-009/42; G03B-027/68

International Patent Class (Additional): G03G-015/28

7/7/6 (Item 1 from file: 347)

DIALOG(R) File 347:JAPIO

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02350235 \*\*Image available\*\*

INSTALLMENT OF PRINTING FORM PLATE IN MULTICOLOR **PRINTER**

PUB. NO.: 62-267135 [JP 62267135 A]

PUBLISHED: November 19, 1987 (19871119)

INVENTOR(s): YOSHIDA KENZO

APPLICANT(s): YOSHIDA SHOTEN GOUSHI [000000] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 61-111242 [JP 86111242]

FILED: May 15, 1986 (19860515)

#### ABSTRACT

PURPOSE: To lower a manufacture cost by enabling the change of a composition and the correction of a plate displacement without requiring a marginal part in a printing plate, by mounting the printing plate, in an interval control free manner, corresponding to the feed pitch of printing paper in a state where the printing plate is formed by being separated for each color without being formed in a simple flat plate, in a label **printer** or the like.

CONSTITUTION: A plurality of printing plates 10, 11 formed by being separated at each color are arranged at each **fixed** interval corresponding to the feed **pitch** of printing paper via the positioning jig 1 consisting of the frame 2 of a rectangular frame state provided, in an interval control free manner, in the feed direction of printing paper and the arm 3 of a long **band** state. Further, scale marks 6, 6 are notched along the longitudinal direction of the frame 2 and each arm 3 can be positioned. Further, the printing plates 10, 11 are arranged inside out on the positioning jig 1 at an interval corresponding to the feed pitch of printing paper by controlling the interval so as to be the same distance as the feed pitch of the printing paper in a state where respective printing plates 10, 11 are established to respective arms 3 via pad pieces 8. Thus,

the printing plates 10, 11 can be fixed to plate fixing parts via the exciting operation of a magnet or the adhesive operation of a double side tape. Therefore, only the positioning jig 1 can be removed.

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File 351:DERWENT WPI 1963-1999/UD=9923;UP=9923;UM=9923

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File 347:JAPIO Oct 1976-1999/Feb. (UPDATED 990603)

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File 348:European Patents 1978-1999/Jun W24

(c) 1999 European Patent Office

Set	Items	Description
S1	15	AU="RASMUSSEN S"
S2	1	AU="ARQUILEVICH DAN"
S3	1	AU="ARQUILEVICH D"
S4	1	AU="STEPHENS VANCE M"
S5	0	S1 AND PRINTER?

2/7/1 (Item 1 from file: 348)  
DIALOG(R) File 348:European Patents  
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00724680

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

**Ink delivery apparatus.**

**Tintenzufuhrvorrichtung.**

**Appareil d'alimentation en encre.**

PATENT ASSIGNEE:

Hewlett-Packard Company, (206030), 3000 Hanover Street, Palo Alto,  
California 94304, (US), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

**Arquilevich, Dan** , 11301 NE 7th Street No. MM-5, Vancouver, WA 98684,  
(US)

Wenzel, Donald E., 2820 NW 12th Avenue, Albany, OR 97321, (US)

LEGAL REPRESENTATIVE:

Colgan, Stephen James et al (29461), CARPMAELS & RANSFORD 43 Bloomsbury  
Square, London WC1A 2RA, (GB)

PATENT (CC, No, Kind, Date): EP 684138 A2 951129 (Basic)

EP 684138 A3 960605

APPLICATION (CC, No, Date): EP 95302642 950420;

PRIORITY (CC, No, Date): US 258270 940526

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: B41J-002/175;

ABSTRACT EP 684138 A2

A thin sleeve (12) covering multiple, flexible ink-delivery tubes (14) connecting ink sources (18) to a reciprocable carriage-mounted printhead (22) in an ink-jet printer is sealed around each tube preventing any tube from physically interacting with any other tube. Sleeve (12) provides structural support for the tubes and eliminates entangling of the tubes. In addition, sleeve (12) can minimize the unwanted diffusion or evaporation of volatile ink constituents through the tubes' sidewalls by maintaining an equilibrrious condition on either side of the tubes' sidewalls between the ink inside tube and the diffused volatile ink constituents that are disposed outside the tube but contained inside the sleeve. (see image in original document)

ABSTRACT WORD COUNT: 127

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 951129 A2 Published application (Alwith Search Report  
;A2without Search Report)

Search Report: 960605 A3 Separate publication of the European or  
International search report

Examination: 970115 A2 Date of filing of request for examination:  
961119

Examination: 970716 A2 Date of despatch of first examination report:  
970602

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	237
SPEC A	(English)	EPAB95	1584
Total word count - document A			1821
Total word count - document B			0
Total word count - documents A + B			1821

CLAIMS EP 684138 A2

1. An ink-delivery apparatus (10) for use in an ink-jet printer including one or more ink reservoirs (18) and a reciprocable carriage-mounted printhead (22) having one or more pens, the apparatus comprising: a sleeve (12) having a first expanse (30) and a second expanse (32) of flexible sheet material; a plurality of substantially parallel elongate, flexible tubes (14) for delivery of ink from one or more ink reservoirs (18) to one or more pens of an ink-jet printer; the tubes lying laterally spaced in relationship

- with one another between the substantially coextensive first and second expanses (30, 32); and the expanses bonding to one another along their substantial length on either side of each tube (14) rendering each tube in physical isolation relative to each of the other tubes.
2. The apparatus of claim 1, wherein each of the first and the second expanses (30, 32) of sheet material are substantially impermeable to volatile ink constituents.
  3. The apparatus of claim 1, wherein each of the first and the second expanses (30, 32) of sheet material are substantially indiffusible to volatile ink constituents.
  4. The apparatus of claim 1, wherein each of the first and the second expanses (30, 32) of sheet material is a laminate having outer polymer layers.
  5. The apparatus of claim 4, wherein the outer polymer layers include polyethylene.
  6. The apparatus of claim 1, wherein each of the first and the second expanses (30, 32) is a laminate having at least one metalized layer.

3/7/1 (Item 1 from file: 351)

DIALOG(R) File 351:DERWENT WPI

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010503953 \*\*Image available\*\*

WPI Acc No: 96-000904/199601

**Sleeve for covering multiple, flexible ink delivery tubes - comprises laminated sheets of polyethylene and aluminium@ laid above and below tube array and heat sealed on either side of each tube, preventing diffusion and evapn. of ink constituents.**

Patent Assignee: HEWLETT-PACKARD CO (HEWP )

Inventor: **ARQUILEVICH D** ; WENZEL D E

Number of Countries: 006 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 684138	A2	19951129	EP 95302642	A	19950420	B41J-002/175	199601 B
US 5473354	A	19951205	US 94258270	A	19940526	B41J-002/175	199603
JP 7314719	A	19951205	JP 95152236	A	19950526	B41J-002/175	199606
EP 684138	A3	19960605	EP 95302642	A	19950420	B41J-002/175	199632

Priority Applications (No Type Date): US 94258270 A 19940526

Cited Patents: 2.Jnl.Ref; EP 322131; JP 57137177; JP 57210879; US 4412233; US 4684962; US 5025270; US 5043746

Patent Details:

Patent	Kind	Lan	Pg	Filing	Notes	Application	Patent
EP 684138	A2	E	5				

Designated States (Regional): DE FR GB IT

JP 7314719 A 5

Abstract (Basic): EP 684138 A

An ink delivery appts. (10) comprises a reciprocable carriage-mounted print-head (22) connected to an ink reservoir (18) via flexible tubes (14). The tubes lie in spaced apart relationship alongside each other between top (30) and bottom (32) layers of sheet material. The sheet material is impervious and indiffusible to volatile ink constituents. The sheet layers (30,32) are laminations of polymer such as polyethylene, and incorporate at least one metallised layer, pref. aluminium. The layers (30,32) are heat sealed on either side of each tube at junctions (28) to form a sleeve (12), providing structural support for the tubes (14) and preventing unwanted evaporation or diffusion of the volatile ink constituents.

USE - To provide structural support for multiple ink delivery tubes, and to prevent diffusion or evaporation of volatile ink constituents.

ADVANTAGE - Prevents the tubes from twisting during carriage movement, and also contains any spillage of ink that may occur due to tube leak or failure.

Dwg.3/3

Derwent Class: A97; G05; P75  
International Patent Class (Main): B41J-002/175

4/7/1 (Item 1 from file: 348)  
DIALOG(R) File 348: European Patents  
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00437413

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

**Printer with improved antiskew mechanisms.**

**Drucker mit verbessertem Mechanismus zum Verhindern von Schrageinzug des Papiers.**

**Imprimante avec mecanisme ameliore pour empecher l'indruction en biais du papier.**

PATENT ASSIGNEE:

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DE; FR; GB; IT)

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**Stephens, Vance M.**, 2900 SE 146th Avenue, Vancouver, WA 98684, (US)

LEGAL REPRESENTATIVE:

Colgan, Stephen James et al (29461), CARPMAELS & RANSFORD 43 Bloomsbury  
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PATENT (CC, No, Kind, Date): EP 433022 A1 910619 (Basic)  
EP 433022 B1 940706

APPLICATION (CC, No, Date): EP 90313455 901211;

PRIORITY (CC, No, Date): US 451286 891214

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: B41J-013/00; B65H-003/06;

CITED PATENTS (EP A): GB 2195614 A; US 4294556 A; EP 29200 A; US 2808262 A

ABSTRACT EP 433022 A1

The invented printer (20) includes a paper drive and mechanisms which hold paper in proper alignment in the drive. Specifically, it includes a pressure plate (27) capable of bringing a sheet of paper into contact with a drive roller (26a, 26b, 26c) so that the paper is properly aligned, a wrapper (29) which keeps paper in proper contact with the drive roller (26b), a media edge contactor (28) that presses against paper, a carriage guide support (30) which helps to insure proper alignment of the paper during printing, and a back-out restraint (24) to prevent paper from backing out of the printer (20). (see image in original document)

ABSTRACT WORD COUNT: 110

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 910619 A1 Published application (A1with Search Report  
;A2without Search Report)

Examination: 920122 A1 Date of filing of request for examination:  
911126

Examination: 930811 A1 Date of despatch of first examination report:  
930628

Grant: 940706 B1 Granted patent

Oppn None: 950628 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	370
CLAIMS B	(German)	EPBBF1	399
CLAIMS B	(French)	EPBBF1	410
SPEC B	(English)	EPBBF1	2621
Total word count - document A			0
Total word count - document B			3800
Total word count - documents A + B			3800

CLAIMS EP 433022 B1

1. A printer with improved anti-skew performance comprising a housing (21) having a print zone (Z), a platen (32) for print media and a drive mechanism including a drive roller (26a, 26b, 26c) for feeding print media from the platen (32) into the housing (21), characterised in that a moveable member (35) is mounted on the platen (32) by an attachment which allows the moveable member (35) to rock slightly relative to the platen (32) about an axis (39) substantially parallel to the direction in which print media is fed across the platen (32), in order to promote simultaneous gripping of a sheet of print media on its opposite lateral sides.
2. A printer according to claim 1, characterized in that a tray (23) is provided for the print media and the platen (32) is hinged and mounted between the tray (23) and drive roller.
3. A printer (20) according to claim 1 or 2, characterized in that said platen (32) has a recessed area (34) and said moveable member (35) includes two raised projections (36, 37) laterally-spaced on said member (35).
4. A printer (20) according to claim 1, 2 or 3, characterized in that said media alignment means further includes a wrapper (29) curved around a portion of said roller (26b).
5. A printer (20) according to claim 4, characterized in that said wrapper (29) contacts said roller (26b) at one point.
6. A printer (20) according to claim 4 or 5, characterized in that said wrapper (29) is spring biased to push against said roller (26b) at one point.
7. A printer (20) according to any of claims 4 to 6, characterized in that said wrapper (29) includes an arm (29a) which is mounted on a base (42) and which curves toward said roller (26b) and touches said roller (26b) at one point.
8. A printer (20) according to any of claims 1 to 7, characterized in that said media alignment means further includes a media edge contactor (28) having a pad (28a) that presses against such media, a mount (46), and a spring (48) attached between said mount (46) and said pad (28a), for biasing said pad (28a) toward said media, wherein said spring (48) is connected to said pad (28a) in such a manner that said pad (28a) resists lateral shifting of such media with more force at one point than at a second point.

CLAIMS EP 433022 B1

1. Ein Drucker mit verbessertem Anti-Schrageinzugverhalten, der ein Gehäuse (21) mit einer Druckzone (Z), eine Auflageplatte (32) für Druckmedien und einen Antriebsmechanismus, der eine Antriebswalze (26a, 26b, 26c) zum Zuführen der Druckmedien von der Auflageplatte (32) in das Gehäuse (21) einschließt, umfaßt, dadurch gekennzeichnet, daß ein bewegliches Bauglied (35) auf der Auflageplatte (32) durch eine Befestigung befestigt ist, die es dem beweglichen Bauglied (35) ermöglicht, sich relativ zu der Auflageplatte (32) um eine Achse (39), die im wesentlichen parallel zu der Richtung ist, in der die Druckmedien über die Auflageplatte zugeführt werden, geringfügig hin- und herzubewegen, um das gleichzeitige Erfassen eines Blattes des Druckmediums auf seinen gegenüberliegenden lateralen Seiten zu unterstützen.
2. Ein Drucker gemäß Anspruch 1, dadurch gekennzeichnet, daß ein Schacht (23) für die Druckmedien vorgesehen ist, und daß die Auflageplatte (32) drehbar ist und zwischen dem Schacht (23) und der Antriebswalze befestigt ist.
3. Ein Drucker (20) gemäß Anspruch 1 oder 2, dadurch gekennzeichnet, daß die Auflageplatte (32) einen ausgesparten Bereich (34) hat und daß das bewegliche Bauglied (35) zwei erhöhte Vorsprünge (36, 37) einschließt, die auf dem Bauglied (35) lateral beabstandet sind.
4. Ein Drucker (20) gemäß Anspruch 1, 2 oder 3, dadurch gekennzeichnet, daß die Medienausrichtungseinrichtung ferner eine Führungsvorrichtung (29) einschließt, die um einen Abschnitt der Walze (26b) gekrümmt ist.
5. Ein Drucker (20) gemäß Anspruch 4, dadurch gekennzeichnet, daß die Führungsvorrichtung (29) die Walze (26b) an einem Punkt berührt.



6. Ein Drucker (20) gemas Anspruch 4 oder 5, dadurch gekennzeichnet, das die Führungsvorrichtung (29) durch eine Feder vorgespannt ist, um an einem Punkt gegen die Walze (26b) gedruckt zu werden.
7. Ein Drucker (20) gemas irgendeinem der Anspruche 4 bis 6, dadurch gekennzeichnet, das die Führungsvorrichtung (29) einen Arm (29a) einschliesst, der auf einer Basis (42) befestigt ist und der sich in Richtung der Walze (26b) eindreht und die Walze (26b) in einem Punkt berührt.
8. Ein Drucker (20) gemas irgendeinem der Anspruche 1 bis 7, dadurch gekennzeichnet, das die Medienausrichtungs-Einrichtung ferner eine Vorrichtung zur Kontaktierung der Kanten der Medien (28) mit einer Fläche (28a), die gegen solche Medien druckt, ein Befestigungsteil (46) und eine Feder (48) einschließt, die zwischen dem Befestigungsteil (46) und der Fläche (28a) angebracht ist, um die Fläche (28a) in Richtung der Medien vorzuspannen, wobei die Feder (48) mit der Fläche (28a) auf eine solche Art verbunden ist, das die Fläche (28a) der lateralen Verschiebung von solchen Medien mit einer groseren Kraft an einem ersten Punkt widersteht als an einem zweiten Punkt.

#### CLAIMS EP 433022 B1

1. Imprimante avec mecanisme ameliore pour empecher l'introduction en biais, comprenant un carter (21), avec une zone d'impression (2), un plateau (32) pour recevoir des milieux d'impression et un mecanisme d'entraînement, comprenant un rouleau d'entraînement (26a, 26b, 26c), destine a amener les milieux d'impression du plateau (32) dans le carter (21), caracterise en ce qu'un organe mobile (35) est monte sur le plateau (32), a l'aide d'une fixation permettant a l'organe mobile de basculer legerement par rapport au plateau (32), autour d'un axe (39) sensiblement parallele a la direction dans laquelle les milieux d'impression sont amenes sur le plateau (32), de maniere a favoriser simultanement la saisie d'une feuille de milieu d'impression sur ses cotes lateraux opposes.
2. Imprimante selon la revendication 1, caracterisee en ce qu'une plaque (23) est prevue pour les milieux d'impression et le plateau (32) etant articule et monte entre la plaque (23) et le rouleau d'entraînement.
3. Imprimante (20) selon la revendication 1 ou 2, caracterise en ce que ledit plateau (32) presente une zone en retrait (34) et ledit organe mobile (35) comprenant deux saillies (36, 37) espacees lateralement sur ledit organe (35).
4. Imprimante (20) selon l'une des revendications 1, 2 ou 3, caracterise en ce que ledit moyen d'alignement de milieu d'impression comprend en outre un enrouleur (29) a forme incurve s'etendant sur une partie dudit rouleau (26b).
5. Imprimante (20) selon la revendication 4, caracterisee en ce que ledit enrouleur (29) est en contact avec ledit rouleau (26b) en un point.
6. Imprimante (20) selon la revendication 4 ou 5, caracterise en ce que ledit enrouleur (29) est soumis a l'action d'un ressort le poussant en un point contre ledit rouleau (26b).
7. Imprimante (20) selon l'une quelconque des revendications 4 a 6, caracterisee en ce que ledit enrouleur (29) comprend un bras (29a) monte sur une base (42) et incurve en direction dudit rouleau (26b), en touchant ledit rouleau (26b) en un point.
8. Imprimante (20) selon l'une quelconque des revendications 1 a 7, caracterisee en ce que ledit moyen d'alignement de milieu d'impression comprend en outre un contacteur de bord de milieu d'impression (28), presentant une garniture (28a) pressant contre ledit milieu d'impression, une monture (26) et un ressort (48), fixe entre ladite monture (46) et ladite garniture (28a), en vue de deplacer ladite garniture (28a) en direction dudit milieu d'impression, dans lequel ledit ressort (48) est relie a ladite garniture (28a) de maniere que ladite garniture (28a) resiste a une tentative de deplacement lateral dudit milieu d'impression, avec une force en un premier point superieure a la force exercee en un deuxieme point.

1/TI,AU/1 (Item 1 from file: 351)  
DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Vitreous fibres containing at least fifteen percent weight alumina - are biologically safe and have a given viscosity, liquidus temperature and a specific dissolution rate at a stated pH

Inventor: CHRISTENSEN V R; GULDBERG M; JENSEN S L; RASMUSSEN S G;  
CHRISTENSEN V; JENSEN S; RASMUSSEN S

1/TI,AU/2 (Item 2 from file: 351)  
DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Equipment for treatment of fibre mass - NoAbstract  
Inventor: EGENES T H; RASMUSSEN S

1/TI,AU/3 (Item 3 from file: 351)  
DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Perforated drum for thin film dewatering of recycled paper pulp - contains device for creating different pressures inside the drum  
Inventor: ENGEWIK T; OSWALDSSON R; RASMUSSEN S ; STRID K

1/TI,AU/4 (Item 4 from file: 351)  
DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Cocoa flavour precursor peptide(s) - for prodn. of cocoa flavours by heating with sugars and amino acids  
Inventor: BACH M; RASMUSSEN S

1/TI,AU/5 (Item 5 from file: 351)  
DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Inflatable life raft for use on all kinds of ships - has lock chambers at entrances which keep water out of raft, and chambers being airtight enabling inside of raft to fill with air during inflation  
Inventor: RASMUSSEN S

1/TI,AU/6 (Item 6 from file: 351)  
DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Oscillatory counter type flow-meter for liquids and gases - has nozzle incorporating longitudinal slit with end cross-slits, which is interrupted by at least one further cross-slit which is/are as long as or shorter than longitudinal slit  
Inventor: JENSEN N D; KRISTINSEN I; RASMUSSEN S

1/TI,AU/7 (Item 7 from file: 351)  
DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Fractionator for fractionating liq. suspensions e.g. paper pulp - comprises flow channel extending from inlet and radially to outlet and multiple concentric cylindrical walls for liq. flow path length  
Inventor: ENGEWIK T; OSWALDSSON R; RASMUSSEN S ; STRID K

1/TI,AU/8 (Item 8 from file: 351)  
DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Control system for twin unit batch filter assemblies - operates by changing filter backflush time with changes in slurry filterability or blockage of filter mesh

Inventor: HORLYK L; OSWALDSSON R; RASMUSSEN S ; STRID K; HOERLYK L;  
OSWALDSON R

1/TI,AU/9 (Item 9 from file: 351)

DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Detection apparatus for safety eye-wear - has infrared transmitter and receiver located in detector, with infrared reflector located in safety eye-wear

Inventor: RASMUSSEN S B; SALISBURY R; SALISBURY R L; RASMUSSEN S

1/TI,AU/10 (Item 10 from file: 351)

DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Desulphurising waste gases - by treating with aq. chloride soln. contg. suspension of slaked lime and/or limestone

Inventor: FELSVANG K S; RASMUSSEN B; RASMUSSEN S

1/TI,AU/11 (Item 11 from file: 351)

DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Flue gas desulphurisation - using adsorbent comprising limestone and clay

Inventor: FELSVANG K S; JONS E S; NIELSEN K K; RASMUSSEN S

1/TI,AU/12 (Item 12 from file: 351)

DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Treatment of incinerator flue gas - contg. organics, and/or mercury and/or nitrogen oxide gas, by contact with activated carbon powder

Inventor: JACOBSEN N; MOLLER J T; NIELSEN K K; RASMUSSEN S

1/TI,AU/13 (Item 13 from file: 351)

DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Rotating stacked tray assembly - has apertured upper shelves and rotatable lower shelf, all mounted on central shaft

Inventor: RASMUSSEN S

1/TI,AU/14 (Item 14 from file: 351)

DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Spray absorption treatment of hot flue gas using liq. absorbent - contg. activated carbon for removal of mercury, chlorodibenzodioxin and chlorodibenzofuran cpd. vapours and acidic components

Inventor: JACOBSEN N; NIELSEN K K; RASMUSSEN S

1/TI,AU/15 (Item 15 from file: 351)

DIALOG(R)File 351:(c)1999 Derwent Info Ltd. All rts. reserv.

Atomisation drying of saccharose soln. - preceded by intensive mechanical treatment producing suspension and following cyclone and drying drum

Inventor: HANSEN O; RASMUSSEN S

?

File 348:European Patents 1978-1999/Jun W24  
(c) 1999 European Patent Office

Set	Items	Description
S1	26565	PRINTER?
S2	2830	(LINE()FEED? OR PITCH?) (N10) (ADJUST? OR CORRECT? OR REGUL- AT? OR MONITOR? OR FIX?)
S3	2650	TEST?(N2) (PATTERN? OR PLOT?)
S4	60566	BAND OR BANDING
S5	222	S1(N15)CALIBRAT?
S6	19	S1 AND S2 AND S3
S7	61	S1 AND S2 AND S4
S8	11	S7 AND CALIBRAT?
S9	0	S7 NOT PITCH?
S10	17	S6 NOT PY=1999
S11	51	S2 NOT PITCH?
S12	6	S11 (S)S1
S13	3	S1(S)S2(S)S4
S14	1	S1(S)S2(S)S3

14/3,K/1

DIALOG(R)File 348:European Patents

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00271396

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

**Method for correcting printing alignment of a serial dot matrix printer.**

**Verfahren zum Korrigieren der Druckposition bei einem Punktmatrixseriendrucker.**

**Procede pour corriger l'alignement d'impression d'une imprimante en serie a matrice par points.**

PATENT ASSIGNEE:

Oki Electric Industry Company, Limited, (225690), 7-12, Toranomom 1-chome Minato-ku, Tokyo 105, (JP), (applicant designated states: DE;FR;GB)

INVENTOR:

Tanuma, Jiro, Oki Electric industry Co. Ltd., 7-12 Toranomom 1-chome Minatoku Tokyo, (JP)

Hayashi, Kuniharu, Oki Electric industry Co. Ltd., 7-12 Toranomom 1-chome Minatoku Tokyo, (JP)

Katakura, Shinichi, Oki Electric industry Co. Ltd., 7-12 Toranomom 1-chome Minatoku Tokyo, (JP)

Sakaino, Hiroshi, Oki Electric industry Co. Ltd., 7-12 Toranomom 1-chome Minatoku Tokyo, (JP)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 263688 A1 880413 (Basic)  
EP 263688 B1 910807

APPLICATION (CC, No, Date): EP 87308872 871007;

PRIORITY (CC, No, Date): JP 86239218 861009

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: B41J-019/14; B41J-002/22; B41J-025/02;  
G06K-015/10;

ABSTRACT WORD COUNT: 59

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	291
CLAIMS B	(German)	EPBBF1	279
CLAIMS B	(French)	EPBBF1	340
SPEC B	(English)	EPBBF1	2131
Total word count - document A			0
Total word count - document B			3041
Total word count - documents A + B			3041

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...SPECIFICATION printed one by one on a sheet which is then fed (line-fed) out so **that** the printed part can be seen by the operator immediately after the printing. When the desired correction amount, or the correction amount **that** is considered most appropriate is printed, another switch 8 is pressed to write the selected correction amount in a battery-back-up memory 10 (substituting any previously stored **correction amount** ).

Figure 7 shows a hardware configuration of the control system of the **printer** . ROM stores programs as well as a table of correction amounts and other fixed data that are used for control of the **printer** . RAM is backed up by a battery and stores the correction amount that has been considered most appropriate. The print-head driver, the space motor **driver** and a line-feed motor driver are connected via an I/O port. Several switches...

...derived from the switches as well as sensors, not shown, in various parts of the **printers** . Figure 8 shows operations of the CPU when various settings are made. Figure 9 shows...

13/3,K/1

DIALOG(R)File 348:European Patents  
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00916850

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

**INK JET PRINTER**

**TINTENSTRAHLDRUCKER**

**IMPRIMANTE A JET D'ENCRE**

PATENT ASSIGNEE:

SEIKO EPSON CORPORATION, (730004), 4-1, Nishishinjuku 2-chome,  
Shinjuku-ku, Tokyo 163-0811, (JP), (applicant designated states:  
DE;FR;GB)

INVENTOR:

TAKAGI, Akira, Seiko Epson Corporation, 3-5, Owa 3-chome, Suwa-shi,  
Nagano-ken 392, (JP)

TOJO, Hiroaki, Seiko Epson Corporation, 3-5, Owa 3-chome, Suwa-shi,  
Nagano-ken 392, (JP)

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, London EC4V 4EL, (GB)

PATENT (CC, No, Kind, Date): EP 911174 A1 990428 (Basic)  
WO 9748558 971224

APPLICATION (CC, No, Date): EP 97927399 970619; WO 97JP2122 970619

PRIORITY (CC, No, Date): JP 96158672 960619; JP 96282728 961024

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: B41J-002/205;

ABSTRACT WORD COUNT: 175

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9917	1097
SPEC A	(English)	9917	15894
Total word count - document A			16991
Total word count - document B			0
Total word count - documents A + B			16991

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...SPECIFICATION half and increases the control conditions on the main scanning speed.

Some conventional ink jet **printers** adopt a printing scheme of **fixed -pitch** sub-scans, in order to attain high-quality printing. This printing scheme controls the pitch...

...under the minute sheet feeding control requirement, the above multi-value outputs tend to cause **banding** .

The nozzle pitch has been narrowed to enhance the printing resolution, but there is a...

**13/3,K/2**

DIALOG(R)File 348:European Patents

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00624129

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**Recording and reproducing apparatus.**

**Aufzeichnungswiedergabegerat.**

**Appareil d'enregistrement et de reproduction.**

PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD, (216884), 1006, Oaza Kadoma,  
Kadoma-shi, Osaka 571, (JP), (applicant designated states:  
AT;BE;CH;DE;DK;ES;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

Oshima, Mitsuaki, 115-3, Katsura Minami Tatsumi-cho, Nishikyoku-ku, Kyoto,  
(JP)

Shimizu, Ryosuke, 10-31, Kazuha Asahi 3-chome, Hirakata-shi, Osaka, (JP)  
Koudo, Toshikazu, 20-27-201, Higashi-machi, 1-chome, Moriguchi-shi, Osaka  
, (JP)  
Yoshiura, Tsukasa, 3-7-105, Myokenzaka, Katano-shi, Osaka, (JP)  
Matsuura, Takumi, 436, Hachijo-cho, Oomiya Nishiiru, Hachijodoori,  
Minami-ku, Kyoto, (JP)  
Tanaka, Mitiro, 5-3, Hikarigaoka 3-chome, Ikoma-shi, Nara-ken, (JP)  
Tan, Satoshi, 3-6-208, Myokenzaka, Katano-shi, Osaka, (JP)

LEGAL REPRESENTATIVE:

Senior, Alan Murray (35711), J.A. KEMP & CO., 14 South Square, Gray's Inn  
, London WC1R 5LX, (GB)

PATENT (CC, No, Kind, Date): EP 609013 A2 940803 (Basic)  
EP 609013 A3 951129

APPLICATION (CC, No, Date): EP 94300402 940119;

PRIORITY (CC, No, Date): JP 938596 930121; JP 9392219 930325; JP 93107423  
930409; JP 93205682 930727; JP 93297504 931102; JP 93314114 931119

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;  
NL; PT; SE

INTERNATIONAL PATENT CLASS: G11B-013/04; G11B-020/10; G11B-019/28;  
G11B-020/18; G11B-021/02; G11B-023/00; G11B-023/36;

ABSTRACT WORD COUNT: 163

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	3380
SPEC A	(English)	EPABF2	73994
Total word count - document A			77374
Total word count - document B			0
Total word count - documents A + B			77374

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...SPECIFICATION in Fig. 12, during an access time  $T_a$ , the head base 19 is moved and **fixed** so that the optical head 6 can access an optical track 65b corresponding to the...track data 328 is provided with a non-signal part 337, and a signal guard **band** results which prevents A track data 328a and B track data 328b from overlapping.  
The...

...track group 326 adjacent to a desired track group while being passed over a guard **band** 325, it is necessary to accurately set a record starting radius and a record ending...

...within a range corresponding to (+-) several ( $\mu$ )m. In this case, by setting the guard **band** width equal to 50 ( $\mu$ )m or more, a track can be recorded which has...

...magnetic head 8 lies near the ending point optical address 320e, passing over the guard **band** and reaching the starting point optical address 320x of a neighboring track group can be...the drawing, noise having frequencies of several KHz overlaps in frequency with the reproduction frequency **band** in the apparatus of this invention which uses a wavelength of 100 micrometers. Therefore, this...

...the drawing, the noise cancel head enables the reduction of the noise in the frequency **band** by about 38 dB. The noise reduction results in an improvement of the error rate...disk. In the absence of the ejecting instruction, a step 480 stops the program.

A **band** pass filter tuned to a frequency **band** equal to a frequency distribution of a reproduced signal from the magnetic head may be...

13/3,K/3

DIALOG(R)File 348:European Patents

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00603486

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**Method and apparatus for eliminating distortion via overscanned illumination for optical printers and the like having high gamma photosensitive recording media**

**Verfahren und Gerat zur Störungsbeseitigung durch überabgetastete Beleuchtung für optische Drucker und ähnliche mit photoempfindlichem Aufzeichnungsmedium mit h**

**Methode et appareil pour éliminer la distortion par illumination surbalayée pour imprimantes optiques ou similaires ayant des milieux d'enregistrement photosens**

PATENT ASSIGNEE:  
 XEROX CORPORATION, (219783), Xerox Square, Rochester New York 14644, (US)  
 , (applicant designated states: DE;FR;GB)

INVENTOR:  
 Curry, Douglas M., 221 Leland Avenue, Menlo Park, California 94025, (US)

LEGAL REPRESENTATIVE:  
 Grunecker, Kinkeldey, Stockmair & Schwanhauser Anwaltssozietat (100721)  
 , Maximilianstrasse 58, 80538 München, (DE)

PATENT (CC, No, Kind, Date): EP 605131 A1 940706 (Basic)

APPLICATION (CC, No, Date): EP 93310053 931214;

PRIORITY (CC, No, Date): US 998151 921229

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H04N-001/04;

ABSTRACT WORD COUNT: 98

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	206
SPEC A	(English)	EPABF2	14024
Total word count - document A			14230
Total word count - document B			0
Total word count - documents A + B			14230

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...SPECIFICATION the angular velocity feedback servo device for the photoreceptor drum 24.

One way to eliminate **banding** is to use the microaddressability feature of the resolution converter described above to move the...

...drum rotating either too fast or too slow. That is, the compressed or expanded intervals (**pitch** widths) can be **corrected** by moving the transitions in the image in the opposite direction. Alternately, another way to eliminate **banding** is to use the resolution ...above to modify the data writing rate to the effective scanning rate. In a conventional **printer**, the data writing rate is fixed, as it arises from the structural design of the **printer**. In contrast, in a **printer** incorporating the microaddressability feature described above, the data writing rate is independent of the scanning...

12/3,K/1

DIALOG(R) File 348:European Patents

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00925886

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**Image reading device, image reading apparatus, and method therefor**

**Bildlesevorrichtung, -gerat und -verfahren**

**Dispositif, appareil et procede d'analyse d'images**

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP), (applicant designated states:  
 AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

Mizoguchi, Shigeru, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, (JP)



Fukunaga, Koji, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,  
Ohta-ku, Tokyo, (JP)  
Maeda, Kenji, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome, Ohta-ku,  
Tokyo, (JP)  
Katano, Kiyoshi, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,  
Ohta-ku, Tokyo, (JP)  
Onsen, Takahiro, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,  
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Ohta-ku, Tokyo, (JP)  
Sunata, Jin, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome, Ohta-ku,  
Tokyo, (JP)

LEGAL REPRESENTATIVE:

Grams, Klaus Dieter, Dipl.-Ing. et al (4423), Patentanwaltsburo  
Tiedtke-Buhling-Kinne & Partner Bavariaring 4, 80336 Munchen, (DE)  
PATENT (CC, No, Kind, Date): EP 844784 A2 980527 (Basic)  
APPLICATION (CC, No, Date): EP 97120577 971124;  
PRIORITY (CC, No, Date): JP 96313712 961125; JP 96343554 961224; JP  
96343555 961224; JP 96343556 961224  
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;  
MC; NL; PT; SE  
INTERNATIONAL PATENT CLASS: H04N-001/407;  
ABSTRACT WORD COUNT: 110

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9822	4163
SPEC A	(English)	9822	10512
Total word count - document A			14675
Total word count - document B			0
Total word count - documents A + B			14675

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...SPECIFICATION Figs. 7 and 8.

Fig. 7 is a block diagram showing the arrangement of the **printer** unit 200, a scanner unit 66 to be connected to the **printer** unit 200, and a print head unit 67. A CPU 61 and a controller 62 of the **printer** unit 200 perform control of three **monitors** (a carriage (CR) **monitor** 64, a **line feed** (LF) **monitor** 58, and an auto-sheet feed (ASF) motor 65) through monitor drivers 63 and 59...

...the scanner unit 66 and the print head unit 67 can be mounted on the **printer**. The joint portion of a carriage 69 of the **printer** unit 200 on which the scanner unit 66 or the print head unit 67 is...

...the scanner unit 66 or the print head unit 67 is electrically connected to the **printer** unit 200 through this contact electrode 54.

As a method of determining a unit mounted...

12/3,K/2

DIALOG(R)File 348:European Patents

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00687071

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**Ink, and ink-jet recording method and instrument using the same.**

**Tinte, Tintenstrahlaufzeichnungsverfahren und Werkzeug verwendend diese Tinte.**

**Encre, procede de reproduction par jet d'encre et appareil en faisant usage.**

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,  
Tokyo, (JP), (applicant designated states:  
AT;BE;CH;DE;DK;ES;FR;GB;GR;IE;IT;LI;LU;NL;PT;SE)

INVENTOR:

Kimura, Isao, c/o Canon Kabushiki Kaisha, 30-2, 3-chome, Shimomaruko,  
Ohta-ku, Tokyo 146, (JP)  
Maeda, Hiroyuki, c/o Canon Kabushiki Kaisha, 30-2, 3-chome, Shimomaruko,  
Ohta-ku, Tokyo 146, (JP)

LEGAL REPRESENTATIVE:

Tiedtke, Harro, Dipl.-Ing. et al (11949), Patentanwaltsburo  
Tiedtke-Buhling-Kinne & Partner Bavariaring 4, D-80336 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 656406 A2 950607 (Basic)  
EP 656406 A3 961009

APPLICATION (CC, No, Date): EP 94118491 941124;

PRIORITY (CC, No, Date): JP 93295373 931125; JP 94241194 941005

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; NL;  
PT; SE

INTERNATIONAL PATENT CLASS: C09D-011/00; B41J-002/01;

ABSTRACT WORD COUNT: 85

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	687
SPEC A	(English)	EPAB95	10177
Total word count - document A			10864
Total word count - document B			0
Total word count - documents A + B			10864

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...SPECIFICATION 36 characters to the line at a rate of 1 second per line  
and a **line feed** of 0.5 second. The **fixing** time was determined by  
measuring the time required until recorded images became free from  
running...

...the recorded surface of the recorded sample at the same time as  
discharged from a **printer**.

(3) Resistance to feathering:

Dots were recorded on an A4-sized paper sheet with nozzles...

12/3,K/3

DIALOG(R)File 348:European Patents

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00377951

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**Platen controlled sheetfeed permitting back-up for erasure.**

**Durch die Schreibwalze gesteuerte Blattzufuhr mit Ruckbewegung zum Loschen.**  
**Dispositif d'alimentation pour feuilles commande par le cylindre d'appui**  
**permettant une marche arriere pour l'effacement.**

PATENT ASSIGNEE:

LEXMARK INTERNATIONAL, INC., (1367862), 55 Railroad Avenue, Greenwich,  
Connecticut 06830, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Akers, Albert Lee, Route 4, Box 79X, Nicholasville Kentucky 40356, (US)  
Carpenter, Rober Morrell, 106 Loch Lomond Drive, Lexington Kentucky 40503  
, (US)

Freeman, William Dudley, 725 Greenwood Drive, Harrodsburg Kentucky 40330,  
(US)

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Leale, Robin George et al (32911), FRANK B. DEHN & CO. Imperial House  
15-19 Kingsway, London WC2B 6UZ, (GB)

PATENT (CC, No, Kind, Date): EP 359689 A2 900321 (Basic)  
EP 359689 A3 900919  
EP 359689 B1 931103

APPLICATION (CC, No, Date): EP 89480111 890712;

PRIORITY (CC, No, Date): US 244366 880915

DESIGNATED STATES: DE; FR; GB  
INTERNATIONAL PATENT CLASS: B41J-013/00;  
ABSTRACT WORD COUNT: 127

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	383
CLAIMS B	(German)	EPBBF1	368
CLAIMS B	(French)	EPBBF1	433
SPEC B	(English)	EPBBF1	1734
Total word count - document A			0
Total word count - document B			2918
Total word count - documents A + B			2918

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...SPECIFICATION 1 when paper is being moved forward in the printer.

Mechanically actuated, semiautomatic typewriter or **printer** sheetfeeds are typically actuated either through electronic means or by mechanical **response** to reverse platen line feeding movement or some combination of reverse and forward line feeding of the machine platen. The mechanical system works well generally, **but not** where backward platen movements may be required for purposes of **correction** of printed errors. During correction the operator could inadvertently feed a new paper while intending...

12/3,K/4

DIALOG(R) File 348:European Patents  
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00364711

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**Printer control device.**

**Drucker-Steuerungsvorrichtung.**

**Dispositif de commande d'imprimante.**

PATENT ASSIGNEE:

Altham, David Richard Spencer, (1100000), 98 Norroy Road Putney, London SW15 1PG, (GB), (applicant designated states: AT;BE;CH;DE;ES;FR;IT;LI;NL;SE)

Prince, Andrew Peter Michael, (1100030), 10 Shepherd's Bush Place, London W12 8LX, (GB), (applicant designated states: AT;BE;CH;DE;ES;FR;IT;LI;NL;SE)

INVENTOR:

Altham, David Richard Spencer, 98 Norroy Road Putney, London SW15 1PG, (GB)

Prince, Andrew Peter Michael, 10 Shepherd's Bush Place, London W12 8LX, (GB)

LEGAL REPRESENTATIVE:

Blatchford, William Michael et al (48801), Withers & Rogers 4 Dyer's Buildings Holborn, London EC1N 2JT, (GB)

PATENT (CC, No, Kind, Date): EP 341040 A1 891108 (Basic)

APPLICATION (CC, No, Date): EP 89304443 890503;

PRIORITY (CC, No, Date): GB 8810387 880503

DESIGNATED STATES: AT; BE; CH; DE; ES; FR; IT; LI; NL; SE

INTERNATIONAL PATENT CLASS: G06K-015/02; G06F-015/20; G06F-003/12;

ABSTRACT WORD COUNT: 104

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	443
SPEC A	(English)	EPABF1	4372
Total word count - document A			4815
Total word count - document B			0
Total word count - documents A + B			4815

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...SPECIFICATION the ROM look up table 48 of the second output port 19 for the label **printer** . This connection provides for activation of this output port on recognition of a 'begin' code and for the necessary additional spaces and **line feeds** required to print the address data in the **correct** position on the label. The output port 19 is then disabled on recognition of the...

12/3,K/5

DIALOG(R)File 348:European Patents

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00311369

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**Printer for normal line feed by a carriage return.**

**Drucker mit einer Vorrichtung zum Fordern in die Normallinie bei Wagenruckstellung.**

**Imprimante equipee d'un dispositif pour positionner le systeme sur la ligne normale par le retour du chariot.**

PATENT ASSIGNEE:

BROTHER KOGYO KABUSHIKI KAISHA, (431480), 35, 9-chome, Horita-dori  
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DE;FR;GB;IT)

INVENTOR:

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Mizuho-ku, Nagoya-shi Aichi-ken, (JP)  
Kawakami, Sae Brother Kogyo Kabushiki Kaisha, 35, Horita-dori 9-chome  
Mizuho-ku, Nagoya-shi Aichi-ken, (JP)

LEGAL REPRESENTATIVE:

Senior, Alan Murray et al (35711), J.A. KEMP & CO 14 South Square Gray's  
Inn, London WC1R 5EU, (GB)

PATENT (CC, No, Kind, Date): EP 287364 A2 881019 (Basic)  
EP 287364 A3 900425  
EP 287364 B1 930818

APPLICATION (CC, No, Date): EP 88303355 880414;

PRIORITY (CC, No, Date): JP 8791320 870414

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: B41J-019/94; B41J-025/20; B41J-025/16;

ABSTRACT WORD COUNT: 63

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1294
CLAIMS B	(German)	EPBBF1	601
CLAIMS B	(French)	EPBBF1	956
SPEC B	(English)	EPBBF1	2910
Total word count - document A			0
Total word count - document B			5761
Total word count - documents A + B			5761

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...ABSTRACT A2

Disclosed is a **printer** having memory means for storing the vertical print position movement data so as to print...

...after printing in a nonstandard row position, the print position is moved down by an **adjusted line feed** amount based on the vertical movement data stored in the memory means. ...

...SPECIFICATION line graphics and then subscripts associated with that line.

US-A-3872959 discloses a positioning **typewriter** in which the print

position may be finely **adjusted** in the horizontal and vertical directions. Operation of the return key moves the print position...

...for moving a print position vertically, characterised by;  
memory means for storing data of vertical **movement** of the print position from one of a plurality of standard row positions when the...

...including the printing control apparatus of the invention wherein the carriage control means comprises carriage **return** control means **responsive** to a carriage return code for moving the print position down by the preset line feed...

...line feed amount to be executed by the carriage return control means based on the **vertical movement** data stored in **the** memory means.  
Thus with the invention an improved printer is obtained in which, when a...

...the predetermined standard row positions to print a super-script or sub-script character, the **line feed** amount can be **adjusted** in response to a carriage return **code determined** by the amount of vertical movement. Accordingly the vertical distance between the printed lines is...

...for moving the print position to a preset left margin position; and compensating means responsive to the carriage **return key** for **adjusting** the preset **line feed** amount based on the vertical movement data stored in the memory means when the print...a super-script or sub-script code, the printing position is vertically moved an amount **placing** it at a standard row position, and returns to the standard row position at the...

...CLAIMS for moving the print position down by the preset line feed amount by utilizing the **line feed** control means, and for moving the **print** position to a **preset** left margin position; and compensating means (M4) for **adjusting** the preset **line feed** amount to be moved by the carriage return control means (M2) based on the vertical...

12/3,K/6

DIALOG(R) File 348:European Patents

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00223735

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**Process and apparatus for setting a cut printing sheet.**

**Verfahren und Vorrichtung für das Ausrichten von Einzelblättern.**

**Methode et dispositif pour l'alignement d'une feuille de papier.**

PATENT ASSIGNEE:

FUJITSU LIMITED, (211460), 1015, Kamikodanaka Nakahara-ku, Kawasaki-shi Kanagawa 211, (JP), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

Inomata, Mitsugu Kuinheitsu Kuji 306, 1809-3 Shimosakunobe Takatsu-ku, Kawasaki-shi Kanagawa 213, (JP)  
Nakao, Fumio, Kopo Kisaragi 101 1727-19, Shukugawara Tama-ku, Kawasaki-shi Kanagawa 214, (JP)  
Maekawa, Takashi, 2-15-2, Tamagawagakuen, Machida-shi Tokyo 194, (JP)  
Uchiyama, Kaneastu, 105-49, Yokokawa-cho, Hachioji-shi Tokyo 193, (JP)  
Endo, Tetsu, Satsukiso 206 21-10, Nakaizumi 2-chome, Komae-shi Tokyo 201, (JP)  
Nobue, Kazuo, 817, Sugano, Okayama-shi Okayama 701-11, (JP)  
Shimazaki, Masaki, 1-31, Kitazono-cho, Kawaguchi-shi Saitama 333, (JP)  
Idouji, Shigeki, Fujitsu Tanakaryo 981, Ohmaru, Inagi-shi Tokyo 216, (JP)

LEGAL REPRESENTATIVE:

Billington, Lawrence Emlyn et al (28331), HASELTINE LAKE & CO Hazlitt House 28 Southampton Buildings Chancery Lane, London WC2A 1AT, (GB)

PATENT (CC, No, Kind, Date): EP 228789 A2 870715 (Basic)

EP 228789 A3 880720

EP 228789 B1 910529

APPLICATION (CC, No, Date): EP 86308695 861107;

PRIORITY (CC, No, Date): JP 85249940 851109

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: B41J-013/28; B41J-013/00;

ABSTRACT WORD COUNT: 166

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS B	(English)	EPBBF1	687
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CLAIMS B	(German)	EPBBF1	630
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CLAIMS B	(French)	EPBBF1	820
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SPEC B	(English)	EPBBF1	3218
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Total word count - document A	0
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Total word count - document B	5355
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Total word count - documents A + B	5355
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...SPECIFICATION an inclined cut sheet according to the previous proposal.

Referring now to Fig. 1, a **printer** embodying the present invention is shown. In Fig. 1, reference numeral 1 indicates a clutch...

...sheet; 9, a carriage; 10, a printing head; 11, a paper guide; 12, a space **monitor** ; 13, a **line feed** motor; 14, a change lever for continuous or cut sheets; 15, a guide for cut sheets; 16, a **printer** controller for controlling the line drive, carriage drive, and printing head drive; 17, a paper...

?

getting cheaper but they are still not inexpensive. The Hewlett Packard PaintJet, at \$1...

...price leader but produces at a lower (180 dpi) resolution with fewer colors than other **printers**. The Mitsubishi G330-70 (\$5,400 plus options) gives the vivid colors of wax thermal printing but with limited capabilities. Tektronix 4693DX Color Image **Printer**, at \$8,995, is a mid-priced wax thermal **printer** with good resolution. The QMS ColorScript 100 Model 30 combines wax thermal color and the...

... been immortalized in a PC graphic image used to demonstrate the output of full-color **printers**.

The level of interest in color printing, as with other PC technologies, rests on two...

...In the past, color printing has seemed like very expensive monkey business. But as color **printers** proliferate, and as interest in them increases, the mandrill threatens to become ubiquitous.

Computer users...

...making the hardware more affordable--depending, of course, on your definition of "affordable." The four **printers** examined in this article display a range of capabilities, and prices from \$1,395 to \$20,000.

A color **printer** still costs two to four times as much as a black-and-white **printer** with comparable resolution and paper-handling capabilities. And the papers and inks used by color **printers** cost several times as much as supplies for black-and-white printing.

But the gap...

...quality, extremely precise colors of wax thermal transfer printing are becoming less expensive.

Wax thermal **printers** shine in snazzy demonstrations like the mandrill graphic, but color ink jet **printers** are becoming the real workhorses. Ink jets cost between \$1,000 and \$2,000--a...

...Like most pioneers, it drew arrows early on, mostly because few graphics software packages included **printer** drivers for the PaintJet. That has changed as new software versions have come to market. The PaintJet is now one of the most widely supported color **printers**, and PaintJet fans are becoming more common.

Shawn Filliben, who works for Du Pont's engineering laboratory, **plots** electrical **test** results with a PaintJet using its highest resolution, 180 dots per inch. The results, he...

...PaintJet performs well for its price. But if price is no object, wax thermal transfer **printers** produce better results. Ink jets typically start with four basic colors and can mix those into as many as a thousand shades. Wax **printers** make the leap to hundreds of thousands or even millions of potential colors using their...

...any individual ink color. These hues are richer and deeper than those from ink jet **printers**, especially in the near-photographic-quality color images that increasingly sophisticated PC software can create...

...can give simple charts a crayon-like appearance.

The big news with wax thermal transfer **printers** is their falling prices and the arrival of PostScript for these machines. But they still aren't inexpensive: most color thermal transfer **printers** run from \$10,000 to more than \$20,000.

The market for these very expensive **printers** so far has been in the desktop publishing world--PR firms, advertising agencies, and graphic design studios.

The premium for PostScript on color **printers** is high. A PostScript-based black-and-white laser **printer** may cost \$1,500 to \$2,000 more than one without PostScript. But in the...

...Tom Weisz of Weisz Yang Dunkelberger, in Westport, Connecticut. Weisz has both a QMS ColorScript **printer** with PostScript and an older model Mitsubishi color thermal, both hooked up to Apple Macintoshes...

...process that can be handled by the PC or by a special rasterizer in the **printer** . Some thermals offer a direct "video" interface that uses the rasterizing the PC has already...

...crimps the possible resolution of the image--few PC monitors top 200 dpi. Thermal transfer **printers** with their own rasterizers are much faster than those without but can cost significantly more.

#### PostScript

Adding a PostScript controller to a color **printer** is much like adding one to a black-and-white **printer** . You're building a computer onto the **printer** , a computer that can understand and interpret PostScript commands and handle rasterizing chores. This makes the **printer** more independent of any particular computer and its driver software and can improve the appearance...

...smoothing curves and standardizing fonts. Building lots of RAM and some spooling software into the **printer** can also speed up the rasterizing process, letting the computer calculate and send the image and then return to performing other tasks while the **printer** lays down the dots and colors at its own pace.

PostScripts is device-independent. A **printer** manufacturer could add color PostScript to a 60-dpi dot matrix **printer** . Though it's technologically possible, it doesn't sound like a good business decision. But adding PostScript to a color **printer** does create more options for juggling the price-quality-speed trade-off. And it points to the ultimate dream machine: try to imagine a four-color PostScript-equipped laser **printer** . While we're at it, let's envision it at 600 dpi. Now, that is how a color **printer** should work.

DESCRIPTORS: Thermal **Printers** ; ...

...Ink Jet **Printer** ;

TRADE NAMES: HP PaintJet (Color ink jet **printer** )--...

...Mitsubishi G330-70 (Computer **printer** )--...

...Tektronix 4693D (Computer **printer** )--...

...QMS ColorScript 100 (Color thermal transfer **printer** )--

11/3,K/9 (Item 1 from file: 47)  
DIALOG(R)File 47:Magazine Database(TM)  
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04226431 SUPPLIER NUMBER: 16829474 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Big screens. (30 17-inch monitors) (includes related articles on best buys and tips for buying and tweaking monitors) (Hardware Review) (Evaluation) (Evaluation)**  
Knorr, Eric  
PC World, v13, n4, p102(12)  
April, 1995  
DOCUMENT TYPE: Evaluation ISSN: 0737-8939 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 6295 LINE COUNT: 00518

... close look for yourself before deciding what to buy. (See "Tips for Buying and Tweaking **Monitors** .")

#### Screen Size and Dot **Pitch**

The **monitors** in this review call themselves 17-inchers, but in fact their average screen size is...

...has been investigating several monitor manufacturers for allegedly deceptive screen size claims in advertisements.

A **monitor** 's dot **pitch** is a key factor in determining sharpness, especially at high resolution. To create a video...



...the distance between the centers of two neighboring phosphor dots of the same color. The **monitors** in this review had dot **pitches** ranging from .28mm to .26mm, and overall, the **monitors** that offered smaller dot **pitches** made a better impression on our judges. Trinitron CRTs have red, green, and blue vertical...offer color-matching software to help you imitate hard-copy hues produced on a color **printer** --a useful feature for graphic artists and desktop publishers.

The most hyped feature in monitorland...buy, you might consider DisplayMate, an easy-to-use program that contains a series of **test patterns** you can use to calibrate as well as evaluate monitors. If you can't use...

11/3,K/10 (Item 2 from file: 47)  
DIALOG(R)File 47:Magazine Database(TM)  
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04059180 SUPPLIER NUMBER: 15081605 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The big picture: 17-inch monitors. (review of 22 color monitors) (Hardware Review) (includes related articles on best buys, 15-inch monitors) (Evaluation)**  
Byers, T.J.  
PC World, v12, n4, p156(9)  
April, 1994  
DOCUMENT TYPE: Evaluation ISSN: 0737-8939 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 6444 LINE COUNT: 00495

... consider buying the DisplayMate software (\$79 list) used for this review. Its suite of detailed **test patterns** and simple instructions can help coax the best image from your monitor. And if a...images aren't sharp and clear. A major factor determining sharpness is the relative dot **pitch** of the **monitor**, which is the distance, in millimeters, between phosphor dots of the same color. The smaller the dot pitch, the sharper your image should be. In this review the dot **pitch** of all the **monitors** is so close (.25mm to .28mm) that there is no visible difference between them. As a rule of thumb, buyers should not consider **monitors** with a dot **pitch** above .28mm.

The exception is the Sony Trinitron tube (and its Mitsubishi inline counterpart), used...also lets you save color settings so you can adjust screen colors for output on **printers** and slides, while a back-panel service port lets a technician handle major adjustments. On...

11/3,K/11 (Item 3 from file: 47)  
DIALOG(R)File 47:Magazine Database(TM)  
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03812579 SUPPLIER NUMBER: 13284834 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Canon BJ-5. (Evaluation)**  
Scisco, Peter  
Compute, v14, n7, p100(2)  
August, 1992  
DOCUMENT TYPE: Evaluation ISSN: 0194-357X LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 634 LINE COUNT: 00046

ABSTRACT: The BJ-5 is compact bubble-jet **printer** that travels well and makes a good desk **printer**, with print comparable to a low-end laser **printer**. Operation is simple and the documentation is very clear. It sells for \$499, or \$589...

TEXT:

Canon's BJ-5 **printer** is nearly indistinguishable from the other entries in its portable BJ line. It uses the same bubble-jet technology that brought ink-jet **printers** out of the closet and put them in the briefcases of mobile executives and on...

Like the other BJ **printers** , the BJ-5 draws power from either an AC adapter or a rechargeable ni-cad battery pack. And, though larger than some other portable **printers** , the BJ-5 makes a good traveling companion for sales personnel or anyone else needing...

...road. But don't sell this unit short if you're looking for a desktop **printer** . The compactness--12.2 x 8.5 x 1.9 inches--that makes it such...

...premium. When coupled with the automatic sheet feeder, the BJ-5 rivals many more expensive **printers** , including low-cost laser **printers** .

The BJ-5 setup procedure is simple and is aided by clear instructions from the brief but complete manual. The process of installing a ribbon cartridge and printing a **test pattern** takes about eight minutes. Characters come out clean and without smearing, though not quite as dark as characters printed from a laser **printer** . The quality of the BJ-5's printing certainly offers competition to 24-pin **printers** , however. The BJ-5 is much quieter than either a laser **printer** or a dot-matrix **printer** .

It took me about ten minutes to print a five-page, 14K text file using Ami Pro 2.0 under Windows, with a standard Helvetica typeface and the **printer** set to IBM ProPrinter emulation (other emulation modes include Epson 24-pin and BJ-130e...

...Canon forum on CompuServe. With the Windows driver, you can take full advantage of the **printer** 's 360 x 360 dpi resolution for graphics printing.

Clearly labeled touch-panel controls are located on the front of the **printer** . From here you can set the top of form, **adjust** the line and form feeds, set **pitch** for condensed or regular spacing, and switch back and forth between the two printing modes...

...Economy saves ink but is no faster than High Quality.

Paper can feed into the **printer** from the top or bottom. Envelopes or thick paper should move through the bottom slot...

...the BJ-5 didn't jam once, either from the sheet feeder or in main **printer** mechanism. Plain bond typewriter paper is recommended.

The BJ-5 makes a solid component for...

...and very good print quality, low noise levels, portability, reliability, and low maintenance requirements, this **printer** is very easy to work with. And that makes it easy to live with.

DESCRIPTORS: **Printers** (Computers...

TRADE NAMES: Canon BJ-5 (Computer **printer** )--

11/3,K/12 (Item 4 from file: 47)  
DIALOG(R)File 47:Magazine Database(TM)  
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02878436 SUPPLIER NUMBER: 04750484 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Dot matrix printers. (evaluation)**

Dickinson, John; Brown, Bruce; Day, Carol Olsen; Desposito, Joe; Johnston, Christopher; Krasnoff, Barbara; Petzold, Charles; Phillips, John; Poor, Alfred; Puglia, Vincent; Raskin, Robin; Rizzo, Tony; Stone, M. David; Wiswell, Phil

PC Magazine, v5, p141(43)

Nov 11, 1986

DOCUMENT TYPE: evaluation LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 36026 LINE COUNT: 02681

**Dot matrix printers. (evaluation)**

TEXT:

DOT MATRIX **PRINTERS**

IF YOU GOT A PENNY EVERY TIME ONE PIN OF A DOT MATRIX **PRINTER** STRUCK A PIECE OF PAPER AND PRINTED ITS LITTLE DOT, YOU WOULD HAVE AN UNIMAGINABLE

AMOUNT OF MONEY. THERE ARE SO MANY DOT MATRIX **PRINTERS** IN USE THAT NO ONE EVEN TRIES TO COUNT THEM ANYMORE. Dot matrix **printers** have always been, and continue to be, the workhorses in most offices, and there's...  
...believe that their role is going to change any time soon.

Today's dot matrix **printers** are generally good-quality machines that are inexpensive, easy to use, and very reliable. Even...

...speeds, and many of them offer more-than-passable correspondence-quality printing. Some dot matrix **printers** are so inexpensive that corporate users consider them disposable--if they break down, they are junked and replaced instead of repaired.

The higher-cost 24-pin **printers** produce variable-font, correspondence-quality print that will fool all but the most-discerning readers into thinking it was produced by a daisy wheel or laser **printer**. Premium-grade 9-pin **printers** offer the welcome kind and combination of speed and durability that would warm the heart of many a minicomputer user.

Since PC Magazine has reviewed most of the **printers** introduced in previous years in the last two **printer** issues, we review only the newest models in this dot-matrix round up. No matter...

...be sure to look through all the reviews to find just the right dot matrix **printer**. You may find a low-priced model that will do the job for you, or...

...attractive.

Laptop Systems

On the Go

The little guy in this year's pack of **printers** is the Laptop Systems On the Go thermal **printer**. This 2-1/2-pound (including four C-cell batteries) bantamweight isn't as powerful...

...just \$149.95.

The On the Go is easy to set up and use. The **printer** comes with the DB 25S serial cable, so all you have to do is plug...

...or rolls, alleviating this problem to some extent.

If you really want to use this **printer** on the go, I'd suggest buying the optional accessory kit (\$29.95), which gives...

...the On the Go's virtues are its portability and low cost. In particular, this **printer** is good for people who need hard copies on the fly and don't need...

...headline on an Ergo Systems Hush 80PR brochure. By the time I finished testing this **printer**, all I was shouting was a disappointed, "Big deal!" "Little deal" would have been more apropos, considering the **printer**'s only real features are low price, low noise, and small size.

My first minutes...

...paper were incorrect. The drawing demonstrating paper feeding barely resembles what you see in the **printer**. Although I fixed the paper and breathed a sigh of relief, manual interpretation problems continued...

...up throughout the testing.

OK. So, for \$199.95, what do you get? While the **printer** looks a bit like a dented shoebox, it's compact and as light as a...

...off to far-away places ran through my mind--that is, until I started the **printer**'s self-test. The print quality (draft mode only) was so poor that my eyes...glance, another plus is the Hush 80PR's miniature size. While this feature makes the **printer** ideal to carry in a briefcase, I nevertheless worry about survival under duress. The cover...

...it closed, and the paper roll fell out several times while I just moved the **printer** about on the table. You don't want to open your briefcase and find 40...

12/3,AB/1 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/INFORM(R)

(c) 1999 UMI. All rts. reserv.

01725363

03-76353

**Reaping the bounty of more ! for your \$**

Sullivan, Kimberlee; Faries, Ronda

Printed Circuit Design v15n11 PP: 14-29 Nov 1998 ISSN: 1047-5567

JRNL CODE: PCC

WORD COUNT: 5950

ABSTRACT: Descriptions and prices of some of the latest workstations, monitors and **printers** that are suitable for use by EDA professionals are presented. According to Dataquest, Hewlett-Packard is poised to claim the top spot in the overall workstation market (Windows NT and UNIX) from long-time leader Sun Microsystems Inc. Already, HP holds the top spot in terms of systems shipped. In the desktop PC market, Compaq and Dell have squared off against each other as number one and two respectively, but can be expected to be challenged by Gateway and HP during the next year.

12/3,AB/2 (Item 1 from file: 647)

DIALOG(R)File 647:CMP Computer Fulltext

(c) 1999 CMP. All rts. reserv.

01145686 CMP ACCESSION NUMBER: WIN19971115S0009

**Hardware - Learn how to perform a tune-up here, a few tweaks there and keep that hardware running at peak form.**

WINDOWS MAGAZINE, 1997, n 811A, PG79

PUBLICATION DATE: 971115

JOURNAL CODE: WIN LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: 2,001 tips

WORD COUNT: 5596

TEXT:

CD-ROM Drives

12/3,AB/3 (Item 2 from file: 647)

DIALOG(R)File 647:CMP Computer Fulltext

(c) 1999 CMP. All rts. reserv.

01025640 CMP ACCESSION NUMBER: WIN19940301S5419

**NEC Versa E UpgradableRoad Machine...**

WINDOWS MAGAZINE, 1994, n 503 , 113

PUBLICATION DATE: 940301

JOURNAL CODE: WIN LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: First Impressions

WORD COUNT: 9300

TEXT:

NEC Versa E

UpgradableRoad Machine

12/3,AB/4 (Item 1 from file: 275)

DIALOG(R)File 275:Computer Database(TM)

(c) 1999 The Gale Group. All rts. reserv.

01584823 SUPPLIER NUMBER: 13378116 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**MacUser: the 8th annual Editor's Choice awards. (includes related articles on the winners of the Distinguished Achievement award and Rising Star award, hardware and software products of the year, breakthrough technology of the year, and 1993 contenders) (Cover Story)**

MacUser, v9, n3, p91(16)

March, 1993

DOCUMENT TYPE: Cover Story      ISSN: 0884-0997      LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 11871      LINE COUNT: 00948

ABSTRACT: The winners of the 1992 MacUser Editors' Choice awards are listed. Susan Kare wins the John J. Anderson Distinguished Achievement Award, and Robert Slimbach and Carol Twombly win the Derek Van Alstyne Rising Star Award. Electronics for Imaging's Cachet version 1.0.1 image-editing program is named software product of the year, and SuperMac Technology's VideoSpigot desktop video card is named hardware product of the year. Apple's PowerBook Duo System is named breakthrough technology of the year. Winners in specific categories include Microsoft Word 5.1 as best new text tool, Claris' FileMaker Pro 2.0 as best new business productivity program, Now Software's Now Utilities 4.0.1 as best new utility, Fractal Design's Sketcher as best new graphics program, Digidesign's Audiomedia II as best new multimedia/sound product, Kodak's XLT 7720 as best new color **printer**, and DEC's DSP 3105 as best new storage product. Honorable mentions are given in each category.

12/3,AB/5      (Item 2 from file: 275)  
DIALOG(R)File 275:Computer Database(TM)  
(c) 1999 The Gale Group. All rts. reserv.

01352981      SUPPLIER NUMBER: 08293994      (USE FORMAT 7 OR 9 FOR FULL TEXT)

**In living color. (guide to color video display systems) (includes related articles on combining separate monitors and video boards, indexed versus direct color, monitor performance - part of 'Color: techniques and technologies' section) (buyers guide)**

Rosch, Winn L.

MacUser, v6, n5, pS32(14)

May, 1990

DOCUMENT TYPE: buyers guide      ISSN: 0884-0997      LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 4151      LINE COUNT: 00318

ABSTRACT: A guide to color display systems for the Apple Macintosh is presented. A Mac equipped with an 8- or 24-bit color card and monitor can use a palette of 16.8 million colors. Color display systems range in price from \$895 for the small MacProducts Magic View to \$12,500 for RasterOps' sophisticated **Calibrator**, which includes an internal microprocessor and **calibrator**. The least expensive large-screen system is the \$3,999 Generation X CT-II. Resolution can be described in terms of dots per inch or as pixel dimensions. Most monitors have 72-dpi screen resolutions in order to match printed output, but some are as high as 87 dpi. Dot pitch and convergence also affect the sharpness of a color display. Color accuracy varies from monitor to monitor depending on phosphor temperature and electron-gun accuracy. The E-Machines ColorPage T16 is rated the best 8-bit system.

12/3,AB/6      (Item 1 from file: 47)  
DIALOG(R)File 47:Magazine Database(TM)  
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05182669      SUPPLIER NUMBER: 20200133      (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Sound. (brief descriptions of amplifiers, CD/MD players and recorders, cables and snakes, digital audio workstations, equalizers, distribution amps/interfaces, hearing assistance devices, headphones, handheld and stand-supported microphones, lavalier microphones, microphones and wireless mic systems, mixers, samplers, self-contained PA systems, and other sound equipment) (Buyers Guide 1998) (Buyers Guide)**

TCI, v31, n10, p135(19)

Dec, 1997

DOCUMENT TYPE: Buyers Guide      ISSN: 1063-9497      LANGUAGE: English  
RECORD TYPE: Fulltext

WORD COUNT: 21723

LINE COUNT: 01748

?

File 621:New Prod.Annou.(R) 1985-1999/Jun 25  
(c) 1999 The Gale Group  
File 16:PROMT(R) 1972-1999/Jun 25  
(c) 1999 The Gale Group  
File 148:Trade & Industry Database 1976-1999/Jun 25  
(c) 1999 The Gale Group  
File 484:Periodical Abstracts Plustext 1986-1999/Jun W1  
(c) 1999 UMI  
File 141:Readers Guide 1983-1999/May  
(c) 1999 The HW Wilson Co  
File 370:Science 1996-1999/May W2  
(c) 1999 AAAS  
File 553:Wilson Bus. Abs. FullText 1982-1999/Apr  
(c) 1999 The HW Wilson Co

Set	Items	Description
S1	228042	PRINTER?
S2	4829	(LINE()FEED? OR PITCH?)(N10) (ADJUST? OR CORRECT? OR REGUL- AT? OR MONITOR? OR FIX?)
S3	5882	TEST?(N2) (PATTERN? OR PLOT?)
S4	184457	BAND OR BANDING
S5	1123	S1(N15)CALIBRAT?
S6	5	S1 AND S2 AND S3
S7	26	S1 AND S2 AND S4
S8	5	S7 AND CALIBRAT?
S9	1	S7 NOT PITCH?
S10	5	S6 NOT PY=1999
S11	5	RD (unique items)
S12	4	RD S8 (unique items)
?		

9/3,K/1 (Item 1 from file: 148)  
DIALOG(R)File 148:Trade & Industry Database  
(c) 1999 The Gale Group. All rts. reserv.

08575703 SUPPLIER NUMBER: 17921365 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Highlights of ITMA: small-lot capabilities. (textile machinery exhibition)**  
Isaacs, McAllister, III; Rozelle, Walter N.; Lennox-Kerr, Peter;  
Brookstein, David; Broughton, Roy M., Jr.; Cook, Fred L.; Elliott, Edward  
J.; Olson, Howard  
Textile World, v146, n1, p58(20)  
Jan, 1996  
ISSN: 0040-5213 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 14468 LINE COUNT: 01169

... a field of designer "wrinkles" are the effect. Or you can make a special pattern **band** adjacent to a plain **band** lengthwise, to feed correctly lengthwise.

The number of needles in one **band** . can feed at one loop length; the needles in the other **band** having its own loop length. Loop length is the single stitch control parameter of knits...and a rewritable optical disk drive (1.3 GB capacity) for backup purposes. A color **printer** and plotter can be connected as options.

Texpa's fully integrated system is for production...levelness and depth of shade of fabrics while they are in motion along the dye **line** . **Feedback** control loops **adjust** conditions of the dye pad to keep shade and level within tolerance ranges.

The system...Printing. One of the most innovative new technologies unveiled at ITMA 95 was the loombeam **printer** by Cortex SA of France. Using heat-transfer paper technology, the unit allows printing of...

...advantages of flexibility, fast delivery, improved quality and decreased cost and handling of yarns. The **printer** can handle current levels of loom speeds.

As with any heat transfer technology, U.S...new player in the U. S. market. The firm exhibited its Samurai inclined rotary-screen **printer** in Milan. As its name implies, the entire printing bed of the unit is at...

...horizontal.

Looking well to the future, Stork Brabant Corp. unveiled a research unit, Fashion Jet **Printer** , a 60 in.-wide ink jet printing system. The machine represents the first result of...

11/3,K/1 (Item 1 from file: 621)  
DIALOG(R)File 621:New Prod.Annou.(R)  
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00158899

00158899

**TECNOST ICT84 FAMILY OF IN-CIRCUIT TEST SYSTEMS OFFERS SUPERIOR PERFORMANCE**  
**- AT NEARLY HALF THE PRICE OF COMPETITIVE SYSTEMS. LOW COST PST100 PRE**  
**SCREEN TESTER ALLOWS RAPID MODIFICATION OF TEST PROGRAMMES.**

DATELINE: Liphook, United Kingdom May 22, 1987 WORD COUNT: 556

...for out of tolerance components, auto correction of non-standard pin connections and modification of **test patterns** by learning. The standard configuration includes an easy-to-use operator console for non technical staff, a 15" video display for system prompts and messages - and a **printer** for hard copy listing and fault tickets. In multi system operations testers can be networked...

...0.2" grid - with a top plate drilled to match the test board as a **pitch adjuster** . Sprung pins between the two plates form the bed-of-nails.  
A six wire guarded...



11/3,K/2 (Item 1 from file: 16)  
DIALOG(R) File 16:PROMT(R)  
(c) 1999 The Gale Group. All rts. reserv.

07651099 SUPPLIER NUMBER: 50197296

**Back to the Basics**

Mills, Robert; Beckert, Beverly A.; Kempfer, Lisa; Schmitz, Barbara  
Computer-Aided Engineering July, 1998 p. 38

ISSN: 0733-3536

\*FULL TEXT AVAILABLE IN FORMAT 7 OR 9\* WORD COUNT: 2536

...with a quick conceptual model for design visualization and review;  
form, fit, and limited function **tests**; and **patterns** for secondary  
tooling applications.

Concept modelers are targeted at design engineers who need to convey or  
communicate initial product ideas quickly - and move on to the next  
concept. Such 3D **printers**, as they are sometimes called, are smaller in  
size than traditional machines and can often...offered for today's  
computers, the essential components for CAD users include a monitor, a  
**printer** / plotter, and sometimes specialized input devices.

Though there is a wide variety of sizes in...

...a monitor including resolution, refresh rates, video bandwidth, vertical  
scan rate, horizontal frequency, and dot **pitch**. Cost might also be a  
factor since the larger **monitors** (19- and 21-in.) cost approximately  
twice that of 17-in. monitors. Another factor to...

...for anything else.

CAD users often use a wideformat (larger than a C-size drawing)  
**printer** /plotter to produce hardcopy output of their drawings and models.  
There are many different technologies...

11/3,K/3 (Item 1 from file: 148)  
DIALOG(R) File 148:Trade & Industry Database  
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06195842 SUPPLIER NUMBER: 13284834 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Canon BJ-5. (Evaluation)**

Scisco, Peter

Compute, v14, n7, p100(2)

August, 1992

DOCUMENT TYPE: Evaluation

ISSN: 0194-357X

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 634 LINE COUNT: 00046

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**TEXT:**

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Like the other BJ **printers**, the BJ-5 draws power from either an AC  
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sales personnel or anyone else needing...

...road. But don't sell this unit short if you're looking for a desktop  
**printer**. The compactness--12.2 x 8.5 x 1.9 inches--that makes it such...

...premium. When coupled with the automatic sheet feeder, the BJ-5 rivals  
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It took me about ten minutes to print a five-page, 14K text file using Ami Pro 2.0 under Windows, with a standard Helvetica typeface and the **printer** set to IBM ProPrinter emulation (other emulation modes include Epson 24-pin and BJ-130e...

...Canon forum on CompuServe. With the Windows driver, you can take full advantage of the **printer**'s 360 x 360 dpi resolution for graphics printing.

Clearly labeled touch-panel controls are located on the front of the **printer**. From here you can set the top of form, **adjust** the line and form feeds, set **pitch** for condensed or regular spacing, and switch back and forth between the two printing modes...

...Economy saves ink but is no faster than High Quality.

Paper can feed into the **printer** from the top or bottom. Envelopes or thick paper should move through the bottom slot...

...the BJ-5 didn't jam once, either from the sheet feeder or in main **printer** mechanism. Plain bond typewriter paper is recommended.

The BJ-5 makes a solid component for...

...and very good print quality, low noise levels, portability, reliability, and low maintenance requirements, this **printer** is very easy to work with. And that makes it easy to live with.

DESCRIPTORS: **Printers** (Computers...

TRADE NAMES: Canon BJ-5 (Computer **printer**)--

11/3,K/4 (Item 1 from file: 484)  
DIALOG(R)File 484:Periodical Abstracts Plustext  
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01138985 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Reviews: Canon BJ-5**

Scisco, Peter

Compute! (GCOE), v14 n7, p100-102

Aug 1992

ISSN: 0194-357X JOURNAL CODE: GCOE

DOCUMENT TYPE: Product Review-Favorable

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 594

LENGTH: Medium (10-30 col inches)

ABSTRACT: Scisco reviews the Canon BJ-5, a **printer** from Canon USA.  
TEXT:

Canon's BJ-5 **printer** is nearly indistinguishable from the other entries in its portable BJ line. It uses the same bubble-jet technology that brought ink-jet **printers** out of the closet and put them in the briefcases of mobile executives and on...

...be able to tell much difference between this and the original.

Like the other BJ **printers**, the BJ-5 draws power from either an AC adapter or a rechargeable ni-cad battery pack. And, though larger than some other portable **printers**, the BJ-5 makes a good traveling companion for sales personnel or anyone else needing...

...road. But don't sell this unit short if you're looking for a desktop **printer**. The compactness-12.2 x 8.5 x 1.9 inches-that makes it such...

...premium. When coupled with the automatic sheet feeder, the BJ-5 rivals

many more expensive **printers** , including low-cost laser **printers** .

The BJ-5 setup procedure is simple and is aided by clear instructions from the brief but complete manual. The process of installing a ribbon cartridge and printing a **test pattern** takes about eight minutes. Characters come out clean and without smearing, though not quite as dark as characters printed from a laser **printer** . The quality of the BJ-5's printing certainly offers competition to 24-pin **printers** , however. The BJ-5 is much quieter than either a laser **printer** or a dot-matrix **printer** .

It took me about ten minutes to print a five-page, 14K text file using Ami Pro 2.0 under Windows, with a standard Helvetica typeface and the **printer** set to IBM ProPrinter emulation (other emulation modes include Epson 24-pin and BJ-130e...

...Canon forum on CompuServe. With the Windows driver, you can take full advantage of the **printer** 's 360 x 360 dpi resolution for graphics printing.

Clearly labeled touch-panel controls are located on the front of the **printer** . From here you can set the top of form, **adjust** the line and form feeds, set **pitch** for condensed or regular spacing, and switch back and forth between the two printing modes...

...Economy saves ink but is no faster than High Quality.

Paper can feed into the **printer** from the top or bottom. Envelopes or thick paper should move through the bottom slot...

...BJ-5 didn't jam once, either from the sheet feeder or in the main **printer** mechanism. Plain bond typewriter paper is recommended. The BJ-5 makes a solid component for...

...and very good print quality, low noise levels, portability, reliability, and low maintenance requirements, this **printer** is very easy to work with. And that makes it easy to live with.

Canon...

DESCRIPTORS: **Printers**

11/3,K/5 (Item 1 from file: 141)  
DIALOG(R) File 141:Readers Guide  
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03053122 H.W. WILSON RECORD NUMBER: BRGA95053122 (USE FORMAT 7 FOR FULLTEXT)

**Big screens.**

AUGMENTED TITLE: 17-inch monitors

Knorr, Eric.

PC World (PC World) v. 13 (Apr. '95) p. 102-8+

WORD COUNT: 7098

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... close look for yourself before deciding what to buy. (See "Tips for Buying and Tweaking **Monitors** .")

Screen Size and Dot **Pitch**

The **monitors** in this review call themselves 17-inchers, but in fact their average screen size is...

...has been investigating several monitor manufacturers for allegedly deceptive screen size claims in advertisements.

A **monitor** 's dot **pitch** is a key factor in determining sharpness, especially at high resolution. To create a video...

...the distance between the centers of two neighboring phosphor dots of the same color. The **monitors** in this review had dot **pitches** ranging from .28mm to .26mm, and overall, the **monitors** that offered smaller dot **pitches** made a better impression on our judges. Trinitron CRTs have red,

green, and blue vertical...offer color-matching software to help you imitate hard-copy hues produced on a color **printer** -- a useful feature for graphic artists and desktop publishers.

The most hyped feature in monitorland...buy, you might consider DisplayMate, an easy-to-use program that contains a series of **test patterns** you can use to calibrate as well as evaluate monitors. If you can't use...

12/3,K/1 (Item 1 from file: 148)  
DIALOG(R)File 148:Trade & Industry Database  
(c) 1999 The Gale Group. All rts. reserv.

06759021 SUPPLIER NUMBER: 14589922 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Multitude of introductions marks industry exposition. (ninth Converting Machinery/Materials Conference and Exposition in Chicago, Illinois) (Converter Show Report)**  
Paper, Film & Foil Converter, v67, n11, p52(6)  
Nov, 1993  
ISSN: 0031-1138 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 6460 LINE COUNT: 00529

... sensor detects a variety of line and background colors and contrasts. Through built-in self-**calibration**, the operator can recalibrate when line properties change. Its primary market is slitting for the flexible-packaging industry.

The SE-17 wide proportional-**band** sensor is designed to perform edge and center-guide functions. When used in pairs, it...

...with one sensor required.

\* Kiwi Coders Corp., Wheeling, IL, has added the Matrix ink-jet **printer** to its line of coding equipment. The **printer**'s compact enclosure houses the printhead, keypad, display and case speed and direction sensor as...

...7 x 5 dot matrix with a message length of up to 30 characters. The **printer** automatically adjusts to case speed and direction.

\* Rotoincisa Cilindri Srl, Milan, Italy, introduced its lightweight ...

...mark to position the rotary operation relative to the mark.

The OP1000 overprint-control system **adjusts** overprinting registration to match the printing **pitch** of preprinted webs. A registration control and tension logic in one unit compensates for registration...field instead of stickyback or mechanical devices.

Steel-based litho plates offer web-off-set **printers** using gapless magnetic cylinders high speed, low vibration and paper savings. In the label industry...

12/3,K/2 (Item 2 from file: 148)  
DIALOG(R)File 148:Trade & Industry Database  
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05165347 SUPPLIER NUMBER: 10752302 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The 1991 Photonics Circle of Excellence Awards. (25 most technically innovative photonics products of the year)**  
Photonics Spectra, v25, n5, p101(14)  
May, 1991  
ISSN: 0731-1230 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 8043 LINE COUNT: 00652

... silica fiber doped with erbium could be made to amplify light in the 1550-nm **band** by appropriate optical pumping, and in May 1990 the company introduced the EFA3000, which produced...and easily taken, and giving the device the flexibility to interface with computer systems and **printers**, as well as assuring upgradability so that the user's investment can grow with the...

...paste and other circuit-board measurements at fast speeds so that 100 percent of their **pitch** and selected other sites could be **monitored** for random defects, CyberOptics built an entirely new sensor head that featured four detectors oriented...source with dyes not previously usable with small-frame ion lasers. Dyes with an absorption **band** of 330 to 340 nm are ideally suited for neon laser upmping, making the neon...nominal radius of curvature, radius tolerance, operator initials and part ID. A rapid device self-**calibration** occurs and the operator can measure individual parts in less than three seconds. Optikos points out that this device **calibration** does not depend on the existence of an external test standard but on the accuracy...laser diodes, which can produce relatively high power at erbium's strong 980-nm absorption **band**.

The SDL-6300 series, featuring both SOT-148 and TO-3 packages, as well as...vacuum chambers for the cavity obsolete.

The Direct 100 also works with a real-time **calibration** in which the measured data of a **calibration** piece is transferred to the computer's reference store ("electronic hologram") and subtracted in real...

12/3,K/3 (Item 3 from file: 148)  
DIALOG(R) File 148:Trade & Industry Database  
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05160502 SUPPLIER NUMBER: 10753418 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**NPE '91. (1991 National Plastics Exposition and Conference)**  
Plastics Engineering, v47, n5, p28(36)  
May, 1991  
ISSN: 0091-9578 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 25816 LINE COUNT: 02154

... and Acrotron Microprocessor Control. The company will also display its high speed Model 730RR peripheral **banding** machine and its Model 830SP-100 10-Ton Vertical Press. Booth 2400.

\* Action Industries, Inc...Corp., East Orange, N.J., will introduce its free-standing 1234-HSFD single color flexographic **printer**, which features a simple friction-driven design, an engraved roll for precise ink distribution, and...of the equipment. The company will also illustrate its Quick Turn Delivery Service for cartridge, **band**, and strip heaters. Booth 3025.

\* Heli-Coil, Danbury, Conn., will exhibit a line of Dodge... uniformity. Booth 958.

\* Imtran Industries Inc., Rowley, Mass., will display their GS-200 Pad Transfer **Printer**, their GS-100 Table-Top Pad Transfer **Printer**, and the DB-500A Automatic Bottle Screenprinter. The firm will emphasize its "modular" approach to pad printing equipment. The approach allows the combining of **printers** and indexers to meet changing needs; components are engineered to complement each other through common...

...slim in design and resistant to contamination. Among other applications, they are used as nozzle **band** heaters. The firm will also display its Air-Cooled Heater Assemblies. Booth 3310.

\* Industrial Magnetics...

...will unveil its high technology melt pressure transducer. The non-filled high temperature system stores **calibration** data curves in its memory for recall at specific operating temperatures. Its wide frequency response... 6124 Industrial Offset Printing Systems, and its Jet-a-Mark LINX Model 4100 ink-jet **printer**. Booth 5517.

\* The Mearl Corp., New York City, will exhibit a line of Pearlescent and...display. Booth 2129.

\* Norwood Marking Systems, Downers Grove, Ill., will display its Jaguar Thermal Transfer **Printer**. The computer-controlled system, has adjustable print parameters that allow it to print bar codes...

...and 12511.

\* Omega Heater Co., Inc., Ronkonkoma, N.Y., will show its Ultrathin Ceramic Heater **Band**, used for processing high temperature engineering

resins. The heater **band** has a high ratio of thermal to electrical insulation and a low mass construction. It...4629.

\* Pad Print Machinery, Inc., Yonkers, N.Y., will unveil its Comec Model LC150LP Pad **Printer**. The **printer** is PLC controlled and has a print plate size of up to 24 x 6...inventory information; it converts auger revolutions to units of weight and performs calculations required for **calibration**. The company will also introduce a number of other products, including its Quick Clean ProBlend...

...Ringwood, N.J., will be introducing the Model S109 Single Spindle Traverse Winder. It features **adjustable pitch** and traverse distance, and constant tension winding from as low as 10 g. Applications include... pipe measuring and control equipment, which can be integrated with the PCS 500 for automatic **calibration** and output control; and the PCS 4000 twin screw extruder control. The firm will also introduce a management information system for process control systems, a Vacuum Cooling and **Calibration** Machine, and its CCM 110-450 cutting and chamfering machine. Booth 10731.

\* RTP Co., Winona...and programmable cooling parameters; it permits, from the front panel, independent tuning of the cooling **band**, cycle time, and deadband. The company will also highlight its PYZ4 Temperature/Process Controller and...

...their other applications. Booth 6549.

\* Uniplast International, Inc., Meadville, Pa., will display its CAL VAK **Calibration** Table and its CAT PUL 2D Haul-Off. The **calibration** table features a four-pump water circulation and cooling system and ergonomically designed controls; the...

...automated unpacking and packing system for plastic cups; the Model 560 COM-II six color **printer**; the Van Dam-Balsfulland CNC-1000 Screen Decorator, which can decorate a multisided object with multiple colors in one pass; and the Model 470-SL (Single Lane) Lid **Printer**, which features a new carousel/ pick-and-place infeed system. The system permits an operator to preload multiple stacks of lids, which can then be automatically fed into the **printer**. Booth 25.

\* Velcon Filters, Inc., San Jose, Calif., will show its MP-5 Portable Oil...and other small part applications--the model on display will be a 5 ton, dual **calibrated** parison machine molding a 12-oz personal care label with "in-mold labeling." Other machines...

...intervals of 20 nm; its two-way serial interface sends spectral data to a serial **printer** or an IBM-compatible PC. Booth 12224.

\* YCI Inc. (Supermax), Compton, Calif., will demonstrate its...

12/3,K/4 (Item 1 from file: 141)  
DIALOG(R)File 141:Readers Guide  
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03558049 H.W. WILSON RECORD NUMBER: BRGA97058049 (USE FORMAT 7 FOR FULLTEXT)

**MMX takes over.**

AUGMENTED TITLE: top 100

PC World (PC World) v. 15 (May '97) p. 187-93+

WORD COUNT: 19953

(USE FORMAT 7 FOR FULLTEXT)

...ABSTRACT: programs. The top 20 power desktops, budget desktops, and notebook PCs and the top 10 **printers**, monitors, graphics boards, and modems are reviewed.

TEXT:

A monthly update of the best desktop PCs, notebooks, **printers**, monitors, graphics boards, and modems

FOR A CHIP DESIGNED by people in metallic clean-room...Top 20 and Top

10 charts are evolving lists of the best PCs, monitors, modems, **printers**, and graphics boards we've tested. The Top 20 charts are divided by price. Power...Trademark M-133NB

\*Transmonde Vigor 120D

\*Twinhead Slimnote 712TV

\*Twinhead Slimnote 9133TZ

TOP 10 WORKGROUP **PRINTERS**

FUJITSU BRANCHES OUT and Kyocera breaks with tradition in this month's Top 10 **Printers** review. Fujitsu is a large company that already sells computers, storage devices, scanners, and more. Now it's entering the workgroup **printer** market with its own brand of lasers--the first being the low-price \$1100 PrintPartner...

...the Fujitsu is pretty fast and the Kyocera offers lots of paper handling options, neither **printer** made the chart.

FUJITSU'S DEBUT **PRINTER**

The PrintPartner 14AV is what we'd call a promising first effort. It delivers impressive...

...and its graphics speed is close to that of our Best Buy, the IBM Network **Printer** 12. The Fujitsu's street price of \$1100 is significantly lower than the monochrome chart...

...make it awkward to clear a jam: You have to open the back of the **printer**, maneuver a flat plastic tab to release the paper path guide, and then pull out...

...scale images that we printed looked so dark we barely recognized them, and they showed **banding** to boot. To lighten the images, we had to open the **printer** and adjust the toner-density knob inside. Those users brave enough to do so will find that at the knob's lowest setting, the grays lighten just slightly--and the **banding** appears worse. The PrintPartner 14AV might be a good buy for offices looking for a fast text **printer**; it's a poor choice for graphics, though.

KYOCERA GOES LASER

The Kyocera FS-1700...

...LED engine with a laser one, but in many ways it's still the same **printer**. While it's good for offices that print in high volume, it's not designed...

...a CD-ROM. Reading its formatted pages on screen is tiring--and awkward if the **printer** isn't next to your computer. Finding a topic is also tough, because each chapter...

...and other user-accessible parts felt very flimsy.

RETESTS: A SECOND CHANCE

We retested several **printers** because the vendors released updated drivers, but none showed significant changes. The Okidata OL1200/PS... to raise its fifth-place ranking. Lexmark's Optra C and IBM's Network Color **Printer**, both color lasers, printed a little faster--but not enough to make our chart.

On...

...realistic. As a result, the Phaser 550 falls to number five.

Capsule Reviews

Monochrome Workgroup **Printers**

1. IBM Network **Printer** 12

Pro: Fastest full-page graphics speed on the chart, very good print quality, control...

...numerous and can be confusing, especially some of the illustrations

When IBM increased the Network **Printer** 12's standard RAM from 2MB to 4MB, and kept the same low \$1250 price, it turned a good **printer** into a great **printer**--and it finally tumbled the Lexmark Optra Lx+ off the top spot on the monochrome chart.

In our tests, the extra 2MB of memory boosted the Network **Printer** 12's graphics about 20 percent, to 2.4 ppm from 2 ppm on our...

...IBM's text speed is still about 20 percent slower than either of the Lexmark **printers** that follow it. That's fairly understandable considering that the Lexmarks both use 16-ppm...

...the IBM is actually faster at printing full-page graphics than either Lexmark.

The Network **Printer** 12 also produced better text and line art than the Optras: Difficult output like reversed type, serifs, and curved letters are clean. The Optras **printers** ' gray scale quality is clearly superior to the Network **Printer** 12's, however, with smoothly blending shades; the Network **Printer** 12's gray scale is grainier.

The Network **Printer** 12 feels sturdy, with solid paper trays and doors you won't worry about breaking...

...replace. A \$269 list 500-sheet paper tray snaps easily onto the bottom of the **printer** , and a \$179 list optional drawer specially configured for envelopes is available.

The Network **Printer** 12 has a few weaknesses. It is hard to make sense of many of the...

...traces of the old driver from our testbed. The correct driver should come with new **printers** , but if not, you can download it from IBM's Web site. Finally the Network **Printer** 12 isn't Plug-and-Play certified. Our initial installation was uneventful, but it and the PostScript driver update both involved more manual intervention than a Plug-and-Play **printer** would require.

2. Lexmark Optra Lx+

Pro: Excellent print quality, LCD labels on the front...smooth transitions from light to dark. This is just at regular 600-dpi resolution; both **printers** are capable of true1200-dpi resolution if you upgrade their standard RAM.

Lexmark's innovative...

...from the inscrutable buttons and cryptic LCD panels you'll still find on many workgroup **printers** . The Optra control panel has a larger, five-line LCD panel with five buttons next...

...much closer to plain English than an icon or an abbreviation. As you navigate the **printer** 's functions, the panel displays new labels for the buttons at each sub-level. Also...

...smooth transitions from light to dark. This is just at regular 600-dpi resolution; both **printers** are capable of true1200-dpi resolution if you upgrade their standard RAM.

Lexmark's innovative...

...from the inscrutable buttons and cryptic LCD panels you'll still find on many workgroup **printers** . The Optra control panel has a larger, five-line LCD panel with five buttons next...

...much closer to plain English than an icon or an abbreviation. As you navigate the **printer** 's functions, the panel displays new labels for the buttons at each sub-level. Also...

...a year ago, it brought a couple of significant new features: It was the first **printer** to incorporate PCL 6, HP's newest version of its **printer** language, which brought noticeable improvements in print quality. It also offered a redesigned front control...

...easier to use. The LaserJet 5M's \$1799 price is expensive enough to keep the **printer** from rising higher on the monochrome chart, but its print quality and design make it...

...make a world of difference when a baffled user is standing in front of the **printer** trying to figure out what's going on. The backlit VCD panel displays scrolling status...



...button? That's the "Go" button, and that's what you press to get the **printer** started again after you've cleared a jam or taken it offline for some reason...

...orange-colored button, "Job Cancel," which is all you need to press to stop the **printer** 's current job.

The LaserJet 5M comes with LocalTalk and ethernet standard, which is more than most workgroup **printers** offer in their standard configurations. What the LaserJet 5M lacks compared to the Optras is...

...or standard PCL, so Okidata apparently had print quality in mind when they configured the **printer** . When we compared the retested **printer** 's output to its previous run we noticed better gray scale quality, with smooth transitions. The **printer** 's appearance is somewhat ungainly--a stocky, squarish box, with a rear-exit paper tray...

...toner and imaging unit couldn't be simpler because they drop straight down into the **printer** , rather than sliding on complicated tracks as most **printers** require. The control panel has buttons that perform more than one function but, unlike other **printers** ' control panels, this one is pretty easy to figure out.

Okidata's new incarnation of...

...solid, dependable system. At about \$1399 street price it's a little steep for a **printer** that doesn't beat the IBM Network 12 in either performance or print quality. On...

...keep in mind: If you work in an enclosed area with inadequate ventilation, an LED **printer** has the advantage of not producing ozone, an irritating gas produced by most laser **printers** .

Color Workgroup **Printers**

1. HP DeskJet 1600CM

Pro: Ink jet **printer** offers good print quality and adequate speed for a fraction of the cost of a color laser, PostScript and ethernet included most workgroup **printers** offer it as an extra-cost option)

Con: Ink jet pages susceptible to moisture and...

...volume a laser can handle--let alone the higher price tag. The sole ink jet **printer** on the charts, it has a \$1999 street price that's thousands of dollars less...

...is a good performer: Text speed is midrange, and graphics speed is adequate.

Ink jet **printers** can be finicky about the kind of paper you use, and ink jet-printed pages...

...are easy to load. Black ink is free for as long as you own the **printer**

Con: Text speed is slow. It takes only letter-size paper. Slightly waxy pages should...

...graphics speed and impressive color quality make the Tektronix Phaser 350 a near-perfect color **printer** . Its solid ink technology produces bright, attractive, saturated color, about as close as anything comes...

...line that is indistinguishable from a Crayola line--what they produce after melting inside the **printer** , blasting onto a piece of paper, and solidifying again (that's why it's called...

...at some tasks. Its graphics speed was the fastest we've seen from a color **printer** , at nearly 1 ppm, or about twice the speed of the competition. But its 3...

...bright colors are only part of the story. The Phaser 350 is a 300-dpi **printer** , and that means you're going to notice some jagged edges and slightly wobbly-looking...

...text and line art. Even maxed-out with 24 MB of memory (the standard-configuration **printer** we tested has 8MB of RAM), its resolution

is limited to 600-by-300 dpi...

...has pledged to give black ink away free for as long as you own the **printer**, you could print all the copies you need--just stay away from the photocopier.

Paper...

...is available as an option--while a special tray is recommended for transparencies and the **printer** cannot print on legal-size paper or envelopes at all. Another peculiarity involves the 350...made to the print quality of its predecessor, the XPrint 4920. Xerox fine-tuned the **printer**'s ability to match its colors with those defined by your application. At the same...

...include a unique, \$250 Media Server--a 3.5-inch disk drive installed in the **printer** so you can print directly from a diskette to the XPrint 4920 Plus. This method...

...testing, we were also prompted to replace the starter fuser oil bottle shipped with the **printer**, which we did without incident--unlike our experiences with the lasers based on the Canon...

...buys you a whopping 24MB of RAM and ethernet and LocalTalk connections, which most workgroup **printers** sell as options. So why is it on the charts, despite all these qualifiers?--Because...

...HP Color LaserJet 5M will do the job more quickly than any other color workgroup **printer** we've tested.

Credit its speed to the **printer**'s 300-dpi resolution. The 600-dpi color lasers on the chart print four times...

...for the Internet or an intranet, the Phaser 550's PhaserLink software lets you view **printer** status and change some settings over the Web. The HTML-based PhaserLink is platform-independent...a chore. The Mitsubishi ends up on top thanks to more features overall, including color **calibration** software, TCO low-emissions compliance, and higher refresh rates. But both these displays are fine...

...Cornerstone replaces its 21/75 fp predecessor that was on our chart last November. Both **monitors** use Hitachi's .27mm dot-**pitch** tube, and can refresh a 1280 by 1024 screen at a rock-steady 94 Hz...

DESCRIPTORS:

...Testing; Computer **printers** --

?

File 15:ABI/INFORM(R) 1971-1999/Jun 24  
     (c) 1999 UMI  
 File 9:Business & Industry(R) Jul 1994-1999/Jun 25  
     (c) 1999 Resp. DB Svcs.  
 File 810:Business Wire 1986-1999/Feb 28  
     (c) 1999 Business Wire  
 File 647:CMP Computer Fulltext 1988-1999/Jun W2  
     (c) 1999 CMP  
 File 674:Computer News Fulltext 1989-1999/Jun W2  
     (c) 1999 IDG Communications  
 File 98:General Sci Abs/Full-Text 1984-1999/May  
     (c) 1999 The HW Wilson Co.  
 File 275:Computer Database(TM) 1983-1999/Jun 25  
     (c) 1999 The Gale Group  
 File 47:Magazine Database(TM) 1959-1999/Jun 25  
     (c) 1999 The Gale group

Set	Items	Description
S1	185427	PRINTER?
S2	4538	(LINE()FEED? OR PITCH?) (N10) (ADJUST? OR CORRECT? OR REGUL- AT? OR MONITOR? OR FIX?)
S3	3582	TEST?(N2) (PATTERN? OR PLOT?)
S4	96195	BAND OR BANDING
S5	1041	S1(N15)CALIBRAT?
S6	16	S1 AND S2 AND S3
S7	30	S1 AND S2 AND S4
S8	8	S7 AND CALIBRAT?
S9	1	S7 NOT PITCH?
S10	16	S6 NOT PY=1999
S11	12	RD (unique items)
S12	6	RD S8 (unique items)
?		

9/3,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/INFORM(R)  
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01155718

98-05113

**Highlights of ITMA: Small-lot capabilities**

Isaacs, McAllister III; Rozelle, Walter N; Lennox-Kerr, Peter; Brookstein, David; et al

Textile World v146n1 PP: 58-77 Jan 1996

ISSN: 0040-5213 JRNL CODE: TXW

WORD COUNT: 13141

...TEXT: a field of designer "wrinkles" are the effect. Or you can make a special pattern **band** adjacent to a plain **band** lengthwise, to feed correctly lengthwise.

The number of needles in one **band** can feed at one loop length; the needles in the other **band** having its own loop length. Loop length is the single stitch control parameter of knits...and a rewritable optical disk drive (1.3 GB capacity) for backup purposes. A color **printer** and plotter can be connected as options.

Texpa's fully integrated system is for production...levelness and depth of shade of fabrics while they are in motion along the dye **line** . **Feedback** control loops **adjust** conditions of the dye pad to keep shade and level within tolerance ranges.

The system...Printing. One of the most innovative new technologies unveiled at ITMA 95 was the loombeam **printer** by Cortex SA of France. Using heat-transfer paper technology, the unit allows printing of...advantages of flexibility, fast delivery, improved quality and decreased cost and handling of yarns. The **printer** can handle current levels of loom speeds.

As with any heat transfer technology, U.S...

... new player in the U. S. market. The firm exhibited its Samurai inclined rotary-screen **printer** in Milan. As its name implies, the entire printing bed of the unit is at...

...horizontal.

Looking well to the future, Stork Brabant Corp. unveiled a research unit, Fashion Jet **Printer** , a 60 in-wide ink jet printing system. The machine represents the first result of...

11/3,K/1 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
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01074097 CMP ACCESSION NUMBER: WIN19951201S0147

**Desktop Systems for the Mainstream - These Pentium boxes provide all the computing power and speed you'll need. (In Brief)**

John J. Yacono, Technical Editor, John Gartner, Technical Director, Serdar Yegulalp, Assistant Technical Editor, and William Gee , Technical Associate

WINDOWS MAGAZINE, 1995, n 614, PG288

PUBLICATION DATE: 951201

JOURNAL CODE: WIN LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: Product Comparisions

WORD COUNT: 4954

... receives commands from the remote control, and it also enables communication with any portable or **printer** equipped with an IrDA-port. Tranxiti software copies, moves, deletes and synchronizes files via the... pattern that was noticeable even when viewing the Windows' desktop, let alone **test patterns** . That is likely due to the large (0.28mm) dot

**pitch** . On the positive side, the **monitor** showed no signs of blooming, maintaining excellent focus across the screen. The monitor's cabinet...

11/3,K/2 (Item 2 from file: 647)  
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01025640 CMP ACCESSION NUMBER: WIN19940301S5419

**NEC Versa E UpgradableRoad Machine...**

WINDOWS MAGAZINE, 1994, n 503 , 113

PUBLICATION DATE: 940301

JOURNAL CODE: WIN LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: First Impressions

WORD COUNT: 9300

... is Slim, Quiet

Lexmark is turning up the temperature on the already hot ink jet **printer** market. Its latest offering, the ExecJet II 4076, will find stiff competition from the likes...

...Canon, and Epson.

At \$349, this is one of the least expensive monochrome ink jet **printers** available. The cost of printing is equally economical: The ink cartridge prints up to 1,000 pages at about 3.2 cents per page. The **printer** 's also Energy Star-compliant: With an average power consumption of 12 watts, it shouldn...

...discernible when you compare the output to pages produced by other 300-dpi ink jet **printers** .

Lexmark's 4076 print engine yields only adequate text lines show some bleeding, and curves...

...graphic printed in just over two minutes. Although it's not the fastest ink jet **printer** available, you won't have to kill time by hanging around the water cooler while...

...50 percent fewer dpi to help extend the life of the ink cartridge.

This lightweight **printer** also is a space saver; at 14.3 inches wide and 11 inches deep, its...

...assigns multiple functions to each button while clearly showing which function is activated. Unlike other **printers** that use lights to indicate the current options, the ExecJet II's control panel flips...

...labeled, too. Additional status indicators clearly show when the ink is running low or the **printer** is out of paper.

Installing the Windows driver requires running the DOS setup program and port, thus limiting the **printer** to one input source at a time. The two-year warranty offers carry-in or...

...next business day.

The ExecJet II 4076 joins the field of low-cost ink jet **printers** , but it does little to distinguish itself. It's a good economical alternative to dot...

...you were typing during an active communications session. You can select from a variety of **fixed -pitch** fonts that are automatically **adjusted** when the size of session window changes. The dialing directory can be displayed as icons...s 17P and ETC's ViewMagic CA-1765SPL look virtually identical. Both have .26mm dot **pitch** displays, digital controls, color **correction** , MPR II compliance, comparable list prices and a long list of other features you'd...better than IBM's does, it does so at the expense of image sharpness. Our **test** images and **patterns** showed that the ViewMagic's image is sharp at the edges, but the focus drops...Inquiry Number 648

IBM ExecJet II 4076

Price: \$349

In Brief: An affordable ink jet **printer** that's a snap to set up and use; however, the enhanced 600x300 dots-per...

11/3,K/3 (Item 3 from file: 647)  
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00544661 CMP ACCESSION NUMBER: WIN19931101S3015

**Move Up to the Big Screen**

John Gartner  
WINDOWS MAGAZINE, 1993, n 411 , 236  
PUBLICATION DATE: 931101  
JOURNAL CODE: WIN LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Reviews  
WORD COUNT: 4111

... red, green and blue phosphors that make up the screen. You can't directly compare **monitors** by their dot **pitch** , since vendors employ different technologies to sharpen images. Sony Trinitron **monitors** arrange phosphors in rows of rectangles or slots, whereas conventional displays arrange phosphors in red...

...The trend toward green computing will continue to flourish as vendors design more monitors, systems, **printers** and other peripherals that meet the EPA Energy Star requirements (see sidebar "How Green Is...the edges are tainted by blue and red shades traceable to a convergence problem. Our **tests** showed moir **patterns** on lighter backgrounds, although they were less noticeable within Windows. One positive aspect is the...

11/3,K/4 (Item 1 from file: 275)  
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01822643 SUPPLIER NUMBER: 17172623 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Bigger windows. (includes related articles on Editors' Choices, highlights, performance tests) (overview of 27 evaluations of 41 17-inch monitors) (individual evaluation records searchable under "Bigger Windows") (Hardware Review) (Evaluation)**

Quain, John R.  
PC Magazine, v14, n15, p138(17)  
Sep 12, 1995  
DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 6543 LINE COUNT: 00517

... display using a variety of 24-bit-color 1,024-by-768 graphics files and **test patterns** . We also used DisplayMate for Windows, from Sonera Technologies (800-932-6323), a \$79 program...

...One feature that distinguishes some lesser-priced models from the high-end displays is dot **pitch** . In standard FST **monitors** , dot **pitch** refers to the diagonal distance in millimeters between two phosphor dots of the same color...roundup is Orchestra's Tympani, which has the lowest price but also the largest dot **pitch** (0.42 mm).

Another main feature that divides 17-inch **monitors** into different classes is the display's available resolutions. Typical low-end models will comfortably...color-matching software that helps match on-screen colors to the output of a color **printer** . Sonnetech's Colorific color-management software, offered standard or as an option with 14 monitors...electron beams are at their greatest deflection.

For the RMS Misconvergence test, we display two **test patterns** : five evenly spaced white horizontal lines and five evenly spaced white vertical lines. We measure...

...temperature and contrast ratio (the ratio between the maximum and minimum luminance values) and used **test patterns** from Sonnera Technologies' DisplayMate for Windows to evaluate screen geometry, distortion, resolution, focus, and text...

11/3,K/5 (Item 2 from file: 275)  
DIALOG(R) File 275:Computer Database(TM)  
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01782031 SUPPLIER NUMBER: 16824115 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Wide open spaces. (15- and 17-inch monitors) (includes related articles on screen tests, monitor technology, and shopping tips) (Buyers Guide)**  
Barnes, Katie  
Computer Shopper, v15, n6, p286(15)  
June, 1995  
DOCUMENT TYPE: Buyers Guide ISSN: 0886-0556 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 5087 LINE COUNT: 00393

... is a sufficiently crisp dot pitch for the maximum resolution you intend to display. Dot **pitch**, which is technically called stripe **pitch** for aperture-grille **monitors**, is a measure of the distance between adjacent phosphor dots of the same color. The...

...guarantees replacement of damaged goods in the first place.  
Even a well-converged, tight-dot-**pitch monitor** will be an eyesore if it can't refresh its screen image at least 75...

...color palettes or temperature settings to help you match on-screen hues to your color **printer** or prepress color-matching system.  
If you plan to switch among different resolutions or video...

...the current refresh rate. The only downside to onscreen controls is that the menu or **test pattern** may cover some area of the monitor you want to see while you make your...of your PC's serial ports. Such sophisticated software offers a variety of options and **test patterns**, and even lets you store a number of setting combinations for the same video mode... monitor you just bought or the old standby on your desk? Put it to the **test** --the **test patterns** in Computer Shopper's Quick Screen Test utility.

The Quick Screen Test is a Windows...

...your WINDOWS/SYSTEM directory.

The most important test for most users will be the Focus **Test Pattern**. When you display it, all the text on the screen should be easily readable, with...

...focus is poor, try adjusting the monitor's contrast and convergence.  
Next, try the Geometry **Test Pattern**. Use the monitor's horizontal and vertical sizing controls to make the center circle as...

...other geometry controls to help correct for bowing or tilting of the lines.

The Convergence **Test Pattern** will help you identify convergence problems. Each line should appear perfectly straight, and adjacent colors ...

...guns being stronger or weaker than the others. The gray rectangles in the Color Tracking **Test Pattern** should show no coloration. If you detect a color tint in the darker grays, you...

...want to return your monitor for one with better color tracking.

Finally, the Purity/Flicker **Test Pattern** is a plain white screen that will alert you to discolorations caused by magnetic fields...has a more cylindrical shape that cuts down on reflections from overhead lighting.

Buy a **monitor** with the smallest dot **pitch** (for shadow-mask technology) or stripe pitch (for aperture-grille designs) you can afford. Don...

11/3,K/6 (Item 3 from file: 275)  
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01699482 SUPPLIER NUMBER: 16229736 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**17-inch monitors: the bigger picture. (overview of evaluations of 42 color monitors) (individual evaluations searchable under "17-Inch Monitors") (includes related articles on Editors' Choice monitors, highlights and benchmark test results) (Hardware Review) (Evaluation)**  
Quain, John R.  
PC Magazine, v13, n16, p191(17)  
Sept 27, 1994  
DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 7565 LINE COUNT: 00576

... tube, called the DiamondTron, but none of the models in this review have it.

Dot **pitch** also affects the image you see on-screen. Inside the **monitor**'s tube is a composite metal screen with holes in it called a shadow mask...

...particular color and the next closest dot of the same color. The smaller the dot **pitch**, the potentially sharper the image. In this roundup, 23 **monitors** have a dot **pitch** of 0.26 mm or less, although up to 0.28 mm is acceptable in a 17-inch **monitor**. None of the **monitors** reviewed here have a dot **pitch** greater than 0.28 mm.

Finally, to improve the clarity of a display's image...for corporate buyers purchasing and maintaining hundreds of monitors. The \$79 program contains dozens of **test patterns** that can help you evaluate the image quality of a monitor you plan to buy...Eastman Kodak's precision color-matching system to match Microsoft Windows screen colors to color-printer output.

The siblings Radius PrecisionColor Display/17 (geared toward the Mac market) and Sony MultiScan...images more easily for different lighting conditions.

For the RMS Misconvergence test, we display two **test patterns**: five white horizontal lines and five white vertical lines. We measure the beam displacement between...

...a white raster at 16 positions on each monitor.

We also ran a series of **test patterns** from Sonera Technologies' Displaymate for Windows to evaluate screen geometry, distortion, resolution, focus, and text...

11/3,K/7 (Item 4 from file: 275)  
DIALOG(R)File 275:Computer Database(TM)  
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01534662 SUPPLIER NUMBER: 12461744 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Help for your hardware. (4Print, CRT Adjustment Tools, Desktop UltraVision 2.12, Laptop UltraVision 2.11, DisplayMate Utilities, PrintCache shareware utility programs) (shareware utilities available through on-line services) (Product Announcement)**  
PC-Computing, v5, n9, p201(1)  
Sept, 1992  
DOCUMENT TYPE: Product Announcement ISSN: 0899-1847 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 713 LINE COUNT: 00057

ABSTRACT: There are a number of useful shareware utility programs



available, including 4Print **printer** software. 4Print prints four or more pages of ASCII text on one or both sides...

TEXT:

...more than you give it credit for. Lend a helping hand to your hard disk, **printer**, or monitor with one of these popular utilities. The shareware programs are available on PC...

... a godsend. Using your Hewlett-Packard LaserJet or DeskJet's landscape mode and a small **fixed-pitch** font, this shareware utility prints four or more readable pages of ASCII text on one...

...wrap. Version 4.1 of 4Print added improved paper handling for doublesided printing on nonduplex **printers**, six shareware soft fonts, and 4Book. 4Book arranges the printing order of pages in 4Print...

...s performance with CRT Adjustment Tools, a free Windows utility. CRT-AT creates eight screen-**test patterns** (with several variations) designed to reveal deficiencies in your monitor's construction or adjustment. What ...

...from Sonera Technologies. This \$149 package includes more than 200 color and black-and-white **test patterns** for checking the display, and it contains more than 100 performance and diagnostic tests for...

...under Windows is in physical printing time--PrintCache's interrupt drivers can sense when your **printer** is ready to receive more data, dramatically increasing the speed at which the job is...

...in Windows and PrintCache's control panel is running, the icon changes colors to reflect **printer** status and displays the buffer space used. PrintCache also zips through serial-port printing by...

...faster baud rates than the DOS MODE command. Other features include remote control of your **printer**, HP LaserJet optimization for graphics files, and a Windows uninstall option. LaserTools Corp., 1250 45th...

...DESCRIPTORS: **Printer** Support Software  
TRADE NAMES: 4Print (**Printer** software...)

11/3,K/8 (Item 5 from file: 275)  
DIALOG(R) File 275:Computer Database(TM)  
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01297904 SUPPLIER NUMBER: 07617769 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**The rainbow connection: four color printers. (Hewlett Packard PaintJet, Mitsubishi G330-70, Tektronix 4693DX, QMS PostScript 100 Model 30)**

(includes product evaluation summary boxes and a related article on how color printers work)

Robinson, Phillip

PC-Computing, v2, n6, p84(10)

June, 1989

DOCUMENT TYPE: evaluation ISSN: 0899-1847 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 5663 LINE COUNT: 00428

**The rainbow connection: four color printers. (Hewlett Packard PaintJet, Mitsubishi G330-70, Tektronix 4693DX, QMS PostScript 100 Model 30)**

(includes product evaluation summary boxes and a related article on how color printers work)

ABSTRACT: Four color **printers** ranging in price from \$1,395 to \$20,000 are compared and evaluated. Two printing...

...quality thermal transfer printing cost between \$10,000 and \$20,000. For their price, these **printers** do produce better results because they can handle millions of color combinations. Wax thermal transfer **printers** are

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 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
      (c) 1998 Inst for Sci Info  
 File 99:Wilson Appl. Sci & Tech Abs 1983-1999/May  
      (c) 1999 The HW Wilson Co.

Set	Items	Description
S1	44771	PRINTER?
S2	2297	(LINE()FEED? OR PITCH?)(N10) (ADJUST? OR CORRECT? OR REGUL- AT? OR MONITOR? OR FIX?)
S3	13978	TEST?(N2) (PATTERN? OR PLOT?)
S4	606984	BAND OR BANDING
S5	153	S1(N15)CALIBRAT?
S6	0	S1 AND S2 AND S3
S7	0	S1 AND S2 AND S4
S8	0	S7 AND CALIBRAT?
S9	0	S7 NOT PITCH?
S10	0	S6 NOT PY=1999
S11	0	RD (unique items)
S12	0	RD S8 (unique items)
S13	17	S1 AND S2
S14	1	S1 AND S3 AND S4
S15	17	S13 NOT PY=1999
S16	17	RD (unique items)
?		

14/7/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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03375618 INSPEC Abstract Number: B89038544, C89032929

**Title: Contrast modulation in halftone images produced by variation in scanline spacing**

Author(s): Haas, D.D.

Author Affiliation: Eastman Kodak Co., Rochester, NY, USA

Journal: Journal of Imaging Technology vol.15, no.1 p.46-55

Publication Date: Feb. 1989 Country of Publication: USA

CODEN: JAPEDL ISSN: 0098-7298

Language: English Document Type: Journal Paper (JP)

Treatment: Theoretical (T); Experimental (X)

**Abstract: Banding** is undesired contrast modulation produced in some laser-written images as an artifact of nonideal scanning performance. Several models are proposed for the behavior of halftone features written by laser **printers** exhibiting low-spatial-frequency modulation of the raster spacing. A parameter, named the **banding** coefficient, is introduced to relate the spacing modulation to the consequent contrast modulation occurring in the laser-written image. The dependence of the **banding** coefficient upon halftone coverage is calculated for one-spatial-dimensional models of arbitrary profile and for numerical simulation of a uniform array of superimposed, scan-smeared Gaussian exposures. The reflectance modulation was measured for **test patterns** composed of horizontal- and vertical-line halftones and of round-dot halftones written by a laser **printer** onto a photosensitive material moving at a sinewave-modulated velocity in the page-scan direction. (11 Refs)

16/7/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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03998891 INSPEC Abstract Number: B91068845

**Title: Fine pitch and the solder paste printer**

Author(s): Hobby, A.

Author Affiliation: DEK Printing Machines Ltd., Weymouth, UK

Book Title: 2nd Components Engineering, Reliability and Test Conference. CERT '91 p.131-7

Publisher: Electronic Components Institute Internationale, Crowborough, UK

Publication Date: 1991 Country of Publication: UK v+179 pp.

Language: English Document Type: Book Chapter (BC)

Treatment: General, Review (G); Practical (P)

**Abstract: At or below 0.025in (0.65 mm) pitch**, printing the paste becomes more demanding, fiducial **correction** during placement is strongly advised and any attempt at wave soldering would most likely result in bridging. Screen printing is able to produce very fine lines with very good thickness control. The difficulties with fine pitch solder paste printing are brought about by a number of factors. These can be divided into three groups: the paste, the boards, and the process requirements. (1 Refs)

16/7/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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03032658 INSPEC Abstract Number: B88002080, C88002711

**Title: OPIC photointerrupter with high resolution encoder function of moire stripe application GP1A35R**

Author(s): Ebina, K.; Mizuno, H.; Tani, Z.

Journal: Sharp Technical Journal no.37 p.115-17

Publication Date: 1987 Country of Publication: Japan

CODEN: STEJD9 ISSN: 0285-0362

Language: Japanese Document Type: Journal Paper (JP)

Treatment: Practical (P); Product Review (R)

Abstract: In order to improve the printing grade of the **printer** and correspond to the PPC's stepless zooming function, high resolution is required for the photointerrupter with attached small encoder functions which are used for printing timing control of the dot **printer**. In order to meet with these needs, the authors have developed the OPIC GP1A35R photointerrupter with a high resolution encoder function where the slit pitch of 0.22 mm was realized by using Moire stripe application technology. The GP1A35R is composed of an infrared LED, four units of photodiode, an OPIC photo receiving device with signal processing circuits, and the **fixed** mask with 0.22 mm **pitch** slit for the moire stripe application. (0 Refs)

16/7/3 (Item 3 from file: 2)  
DIALOG(R) File 2:INSPEC  
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02406231 INSPEC Abstract Number: C85015213  
**Title: Optical design innovations in a laser printer**  
Author(s): Rabedeau, M.  
Author Affiliation: IBM Gen. Products Div., San Jose, CA, USA  
Journal: Lasers & Applications vol.3, no.10 p.51-3  
Publication Date: Oct. 1984 Country of Publication: USA  
CODEN: LAAPE2 ISSN: 0733-303X  
Language: English Document Type: Journal Paper (JP)  
Treatment: New Developments (N); Practical (P); Product Review (R)  
Abstract: The optical system of the IBM 3800 printing subsystem models 3 and 8 incorporates a number of design improvements that enable it to print at both high speed and high resolution. The optical design features an anamorphic, ten-element, laser-optical scanner that produces two individually modulated scanning spots. The optical system uses design features which ensure that the system has less than 0.05 wavelength of wavefront distortion to produce small, uniform, scanning spots for high-quality printing. Incorporated in the optical system are the means of **correcting pitch** -angle errors of the rotating mirror, field curvature, and nonuniform scan velocity. (3 Refs)

16/7/4 (Item 4 from file: 2)  
DIALOG(R) File 2:INSPEC  
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02301975 INSPEC Abstract Number: C84039480  
**Title: Shift register maneuvers data to add print features (dot-matrix line printers)**  
Author(s): Gordon, P.  
Author Affiliation: Hewlett-Packard, Boise, ID, USA  
Journal: Computer Design vol.23, no.6 p.105-14  
Publication Date: 1 June 1984 Country of Publication: USA  
CODEN: CMPDAM ISSN: 0010-4566  
Language: English Document Type: Journal Paper (JP)  
Treatment: Practical (P)  
Abstract: Sequencing problems would be eliminated if the impact **printer** mechanism could accept direct raster-scan type data. For example, the **printer** 's control electronics, called dot-generation logic (DGL), would be quite simple if designers used a single, large shift register loaded with an entire print row's bit image during the nonprinting print-bar turnaround time. This basic shift-register concept yields such advanced **printer** features as mixed character-set pitches and proportional line spacing. This strategy has been adopted by Hewlett-Packard for its two recent dot-matrix line **printers**, the 300-line/min model 2563A and the 900-line/min 2566A. With improved DGL circuitry, character text is printed at several **fixed pitches**, and proportional spacing is planned. (0 Refs)

16/7/5 (Item 5 from file: 2)  
DIALOG(R) File 2:INSPEC

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02286925 INSPEC Abstract Number: C84034673

**Title:** Printer or typewriter?

Author(s): Williamson, C.

Journal: Which Micro and Software Review p.91

Publication Date: March 1984 Country of Publication: UK

CODEN: WMSREV ISSN: 0262-673X

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: The Ultra 21 typewriter/ **printer** , marketed by the Discom Trading Company of Evesham, sells at around Pounds 450 and looks for all the world like a standard office-style daisywheel typewriter with 66 keys, **adjustable pitch** and **correction** facilities. The difference becomes apparent when you examine the back of the unit, which has been fitted with a large 'D' connector to take the Centronics parallel output from a computer such as the BBC Micro. Once the connection has been made, the Ultra 21 is transformed and ready to lead its double life. (0 Refs)

16/7/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

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02248220 INSPEC Abstract Number: D84001385

**Title:** Which typewriter?

Journal: What to Buy for Business no.39 p.3-48

Publication Date: 15 March 1984 Country of Publication: UK

CODEN: WBUBDH ISSN: 0265-296X

Language: English Document Type: Journal Paper (JP)

Treatment: Applications (A); General, Review (G)

Abstract: Electronic typewriters offer many more features than electro-mechanicals, some of which can add substantially to typing productivity and others are aimed at improving presentation. Choosing an electronic typewriter is no easy task. Some have memories which enable you to store text and then subsequently make changes and corrections to it. There are three very distinct different types: correction-only electronics; phrase playback electronics; and editable electronics. The main features in all three categories are: automatic lift-off **correction** ; **pitches** and proportional spacing; line display; editing features; carriage lengths and typing line; bold print; centering; justification; automatic underlining; half space key; decimal tabulation; automatic paper feed; automatic carriage return; automatic repeat key; forms memory; stop code; block indent; vertical line tabulation; and column layout. A more sensible way of using the typewriter is to interface it with a microcomputer so that it serves as a **printer** and, possibly, as an input terminal too. A number of typewriters with memory can be used to access Telecom Gold, the British Telecom electronic mail messaging bureau. A chart gives recommendations on every electronic typewriter, plus spec. and price information on all the models. (0 Refs)

16/7/7 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

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01551768 INSPEC Abstract Number: C80024123

**Title:** Font identification

Author(s): Dooley, T.E.

Author Affiliation: IBM Corp., Armonk, NY, USA

Journal: IBM Technical Disclosure Bulletin vol.22, no.8A p.3051

Publication Date: Jan. 1980 Country of Publication: USA

CODEN: IBMTAA ISSN: 0018-8689

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: A single offset font identification opening in the central hub of a daisy wheel print element can be utilized for automatic **printer** set

up. Identification is accomplished through the use of a sensor and a counter. Upon rotation of the print element, the counter is incremented for each character petal until an opening is sensed by the sensor. The sensing of the opening will automatically cause the **printer** to be set to the **correct pitch**. A magnetic bead or insert can be used in place of the above-described opening. (0 Refs)

16/7/8 (Item 8 from file: 2)

DIALOG(R) File 2:INSPEC

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00546708 INSPEC Abstract Number: C73019254

Title: **Teleprinter type 200 (siemens AG), an input/output device for digital data processing equipment**

Author(s): Schneider, H.

Journal: Fernmelde-Praxis vol.50, no.8 p.321-34

Publication Date: 25 April 1973 Country of Publication: West Germany

CODEN: FEPXAP ISSN: 0015-0118

Language: German Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: The teleprinter 200 is an input/output device coded according to ISO/CCITT No.5 (7 bits plus 1 parity bit). Components are classified as mechanical (**printer**, interpreter, card-reader, punch, driving mechanism) or electrical (transmitter, receiver, controllers, keyboard). Photographs of major parts and a block circuit diagram are included. Sixteen special symbols are available; space, shift, lock, repeat, carriage return, **line feed**, new line, back-space, **correct**, reader-on, reader-off, punch-on, punch-off, bell, form-feed and enquiry. (0 Refs)

16/7/9 (Item 1 from file: 233)

DIALOG(R) File 233:Microcomputer Abstracts

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00429027 96WN07-006

**High-performance partner: NEC PowerMate P150**

Miller, James Alan

Windows Magazine, July 1, 1996, v7 n7 p98, 1 Page(s)

ISSN: 060-1066

Company Name: NEC Technologies

Product Name: NEC PowerMate P150

Presents a favorable review of the NEC PowerMate P150 (\$2,646), a microcomputer system from NEC Technologies (800, 508). Reports that this system contains a 150MHz Pentium CPU, 16MB EDO RAM, Intel's Triton chipset and 256K of synchronous pipeline burst cache, a 2GB hard disk drive, a 6X CD-ROM drive, and a Matrox Millennium graphics card with 2MB WRAM. Bundled software includes XSoft TabWorks, QA Plus Pro, Netscape Navigator, and Voyetra's Multimedia Sound Software. Performance includes 273 MIPS for the CPU and 3.5MB/sec for uncached hard disk throughput. Says the P150 has an outstanding NEC MultiSync XV17+ **monitor** with 0.28mm dot **pitch** and the AccuColor control system which helps attain color fidelity between the monitor and a **printer**, another monitor, or a color standard such as Pantone. However, says the P150 lacks a modem and network interface. Rates the NEC PowerMate P150 three and one-half Windows out of five. Includes one photo and a product summary. (jo)

16/7/10 (Item 2 from file: 233)

DIALOG(R) File 233:Microcomputer Abstracts

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00384692 95MH05-003

**Home office to the Macs -- The hardware buyers' guide for every budget**

Burton, Jim

MacHome Journal, May 1, 1995, v3 n5 p32-36, 5 Page(s)

ISSN: 1074-0392

Company Name: Apple Computer

Product Name: Quadra; Performa 630

Provides general guidelines for equipping a home office with Macintosh computers and considers monitors, **printers**, keyboards, and fax modems. Recommends for general purposes a 14-inch multi-sync **monitor** (with 0.28 or lower dot **pitch**). Mentions that several companies make Apple compatible keyboards and says you can expect to pay \$180. Says that the future of communications lie with modems, and advises purchase of a 14.4kbps, which should cost around \$130. States that if you plan moderate to heavy **printer** use, you should consider a laser **printer** where higher prices bring more memory and improved quality. Says that for the computer itself, you should get a minimum of 8MB memory and a 250MB hard drive and recommends the Quadra or Performa 630. Includes a one-page chart outlining purchase recommendations for nine different budgets. Includes five photos, and a product source guide. (bjp)

16/7/11 (Item 3 from file: 233)

DIALOG(R) File 233:Microcomputer Abstracts

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00366674 94PV11-007

**20 questions -- Answers that will help you choose a computer**

Krushenisky, Cindy

PC Novice, November 1, 1994, v5 n11 p39-42, 4 Page(s)

ISSN: 1052-1186

Offers answers to 20 common questions asked by consumers preparing to buy a microcomputer system. Provides definitions for hard drive, and RAM. Explains what the numbers and letters of a model mean. Offers a definition of megahertz, clock speed, and what "Intel Inside" means. Explains whether microcomputer systems can be upgraded with a Pentium chip; multimedia; expansion slots; what the logos MPC and MPC2 mean; and how modems differ from one another. Describes differences in types of **printers**, how to measure **printer** quality, the differences between **monitor** acronyms, and dot **pitch** on a **monitor**. Other topics covered include interlaced **monitors**, issues of compatibility, and how many floppy drives are needed. Explains the usefulness of a surge protector, and discusses whether to wait for Windows 95. (bjp)

16/7/12 (Item 4 from file: 233)

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00360424 94PI09-285

**Nanao FlexScan F550iW, Nanao FlexScan F560iW**

Fikes, Brian

PC Magazine, September 27, 1994, v13 n16 p237-238, 2 Page(s)

ISSN: 0888-8507

Company Name: Nanao

Product Name: Nanao FlexScan F550iW; Nanao FlexScan F560iW

Presents favorable reviews of the Nanao FlexScan F550iW (\$1,099) and FlexScan 560iW (\$1,399), two 17-inch monitors from Nanao USA Corp., Torrance, CA (800, 310). The F550iW has a refresh rate of 80 Hz at 1,024-by-768 and a 0.28mm dot pitch. The F560iW has a 90 Hz refresh rate at that resolution and a 0.26 dot **pitch**. Both **monitors** offer excellent color accuracy but subjective evaluation indicated that their displays were not as well focused or bright at the edges of the screen as in the center. The monitors are bundled with Colorific Color Management software which can be used to match screen colors to **printer** output. They have a full set of controls which are "elegant and precise" and they are compatible with DPMS and screen-blanking (a version of After Dark screen saver is included). Either one of these monitors "should serve the high-end user well." Includes two photos. (djd)

16/7/13 (Item 5 from file: 233)

DIALOG(R)File 233:Microcomputer Abstracts  
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00325039 93WB09-002

**Buying peripherals**

Lauriston, Robert

Windows Magazine Bonus Issues , September 1, 1993 , v1 n2 p68-136, 32  
Page(s)

Presents a buyers' guide to microcomputer peripherals. Includes tables comparing features of 145 color monitors (p78-86); 98 laser **printers** (p88-94); 13 color **printers** (p94); 97 pointing devices (p96-102); 70 data modems (p104-110); 157 fax modems (p110-122); 29 CD-ROM drives (p126); 39 sound cards (p128-130); 58 video cards (p132-134); and 29 scanners (p136). Discusses salient features of each type of peripheral, noting: tube types, size, dot **pitch**, interlacing, and refresh for color **monitors**; PostScript, internal fonts, resolution, and speed for laser **printers**; ink, wax, and dye types of color **printers**; mechanical, opto-mechanical, and optical pointing devices; V.42bis data compression, speed, and types of modems; Group 3 compatibility and CCITT standards for fax modems; Photo CD compatibility for CD-ROM drives; obtaining MPC 2 sound cards; and speed, color depth, and resolution of video cards. Includes three photos. (jo)

16/7/14 (Item 6 from file: 233)

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00208523 90PI01-135

**IQ Engineering Super Cartridge 2**

Mendelson, Edward

PC Magazine , January 16, 1990 , v9 n1 p168, 171, 2 Pages

ISSN: 0888-8507

Presents a very favorable review of IQ Engineering Super Cartridge 2 (\$649), a font cartridge for HP LaserJet Series II or compatible **printers** from IQ Engineering, Sunnyvale, CA (800, 408). The cartridge provides the widest range of **fixed - pitch** and proportional fonts in the best available range of point sizes. Software drivers are included for nearly all major applications, including Microsoft Windows and Ventura Publisher. Other versions of the cartridge include the 2LC (\$399) which has the same fonts as the HP WordPerfect Cartridge, but better designed; the 2L which provides 200 fonts and is compatible with soft fonts; and a landscape version of the 2 for \$749. The cartridge was formally reviewed in the June 13, 1989 issue. It is one of the ``Best of 1989.'' Includes one photo. (djd)

16/7/15 (Item 7 from file: 233)

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00208174 90CP01-003

**Of programs, philosophy, and phoolishness ...or how I ignored software engineering's strictest precepts and invented desktop publishing in 1967**

Kyle, Jim

Computer Language , January 1, 1990 , v7 n1 p71-77, 5 Pages

ISSN: 0749-2839

Describes how the author and a coworker designed a system they called Publications Automation (now called desktop publishing) using a mainframe and remote terminals in 1967. They approached the design from two perspectives, one worked algebraically from the top down while the other worked geometrically from the bottom up, which theorists would consider a recipe for disaster. Says the four factors which contributed to their ultimate success were: both developers had a thorough grasp of the problem requirements since they were trying to automate their jobs, they had total management support, the were given no time constraints, and only the two of them were involved and they communicated constantly. As an example of their work, presents a description of the algorithm they developed to provide



properly justified text on both a proportional spaced **printer** and a monospace **fixed pitch** device. Includes two illustrations. (djd)

16/7/16 (Item 8 from file: 233)

DIALOG(R)File 233:Microcomputer Abstracts

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00206786 89PI12-110

**PrintVision adds page preview to existing applications**

Miller, Rock

PC Magazine , December 26, 1989 , v8 n22 p51, 1 Pages

ISSN: 0888-8507

Presents a favorable review of PrintVision (\$69.95), a page preview utility from Bloc Publishing Corp., Miami, FL (305). The program requires 64K RAM; Hercules, CGA, EGA, or VGA display; Hewlett-Packard LaserJet, DeskJet, or compatible; and DOS 2.0 or later. It works by intercepting the **printer** control codes generated by an application to produce screen previews for applications that don't offer graphical previews. It does a good job with **fixed - pitch** internal fonts and PCL graphics but is limited in its handling of proportional fonts. Users can zoom in on a portion of the displayed page, but the program will not print from the zoomed display and since it doesn't spool print jobs, each page must be finished before the next can be worked on. The program works well on ``bread-and-butter jobs.'' The vendor is developing a version which supports Epson 9- and 24-pin **printers** and IBM Proprinters. Includes one screen display. (djd)

16/7/17 (Item 9 from file: 233)

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00059602 8342353

**NEC Fix**

Wooding, Jim

Antic , Jul 1983 , v2 n4 p86, 1 page

Presents a quick-**fix** for the annoying high **pitch** tone or squeal that is generated by some NEC 8023A **printers** when the power switch is on and "idling." Notes that it is caused by defective capacitors that were installed in many NEC 8023A's.

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